



## DEPARTMENT OF ENVIRONMENTAL QUALITY

KATHLEEN BABINEAUX BLANCO

GOVERNOR

MIKE D. McDANIEL, Ph.D.

SECRETARY

Certified Mail No.

Activity No.: PER19960001

Agency Interest No. 3732

Fred A. Elliot  
Plant Manager  
PCS Nitrogen Fertilizer, LP  
P.O. Box 307  
Geismar, Louisiana 70734

RE: Part 70 Operating Permit, Ammonia Group, a portion of the Geismar Agricultural Nitrogen & Phosphate Plant  
PCS Nitrogen Fertilizer LP, Geismar, Ascension and Iberville Parishes, Louisiana

Dear Mr. Elliot:

This is to inform you that the permit for the above referenced facility has been approved under LAC 33:III.501. The permit is both a state preconstruction and Part 70 Operating Permit. The submittal was approved on the basis of the emissions reported and the approval in no way guarantees the design scheme presented will be capable of controlling the emissions as to the types and quantities stated. A new application must be submitted if the reported emissions are exceeded after operations begin. The synopsis, data sheets and conditions are attached herewith.

It will be considered a violation of the permit if all proposed control measures and/or equipment are not installed and properly operated and maintained as specified in the application.

Operation of this facility is hereby authorized under the terms and conditions of this permit. This authorization shall expire at midnight on the \_\_\_\_\_ of \_\_\_\_\_, 2011, unless a timely and complete renewal application has been submitted six months prior to expiration. Terms and conditions of this permit shall remain in effect until such time as the permitting authority takes final action on the application for permit renewal. The permit number and agency interest number cited above should be referenced in future correspondence regarding this facility.

*for P.M.  
Jodi*

of \_\_\_\_\_, 2006.

Chuck Carr Brown Ph.D.

Assistant Secretary

CCB:KCW

cc: EPA Region VI

**ENVIRONMENTAL SERVICES**

: PO BOX 4313, BATON ROUGE, LA 70821-4313

P:225-219-3181 F:225-219-3309

WWW.DEQ.LOUISIANA.GOV

**PUBLIC NOTICE**  
**LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY (LDEQ)**  
**PCS NITROGEN FERTILIZER, LP AMMONIA GROUP**  
**PROPOSED INITIAL PART 70 AIR OPERATING PERMIT**

The LDEQ, Office of Environmental Services, is accepting written comments on an initial Part 70 air operating permit for PCS Nitrogen Fertilizer LP, P.O. Box 307 Geismar, Louisiana 70734 for the Ammonia Group. **The facility is located at 10886 Hwy 75 (Hwy 30 and 3115), in Geismar, in both Ascension and Iberville Parish.**

PCS Nitrogen Fertilizer, LP requested an initial Part 70 air operating permit for the Ammonia Plant. The Ammonia area currently operates under Permit No. 2241 (M-1), issued on September 26, 1994. A General Air permit was issued under Permit No. 2241-V0 for the Ammonia Plant Co-generation Unit, and the Ammonia Loading Operation currently operates under ( small source) Permit Number 2809, issued on May 30, 2002. All three contain sources in the Ammonia Group.

PCS Nitrogen Fertilizer LP is modifying the Ammonia Group by deleting the Ammonia Plant Co-generation Unit. PCS has permanently shutdown the 24 megawatt electric generator and associated natural gas fired turbine. No other modifications are planned, but PCS is incorporating some previously unpermitted auxiliary equipment as well as miscellaneous authorizations to construct, the small source permit and General permit.

The changes in emissions are almost totally due to a reconciliation of the emission rates, based upon the most recent stack testing of the production units or updates to AP-42 emission factors.

Estimated emissions in tons per year are as follows:

Pollutant	Before	After	Change
PM <sub>10</sub>	29.50	142.69	+113.19
SO <sub>2</sub>	3.90	2.52	-1.38
NO <sub>X</sub>	1,280.09	1806.24	+526.15
CO	187.59	393.42	+205.83
VOC	12.41	100.55	+88.14
H <sub>2</sub> SO <sub>4</sub> (Sulfuric Acid)*	Not Reported	0.10	+0.10
Ammonia*	459.02	425.22	-33.80
Chlorine*	Not Reported	2.26	+2.26
Hydrogen Sulfide*	Not Reported	0.03	+0.03
Methanol*	Not Reported	21.23	+21.23
Nitric Acid*	Not Reported	3.12	+3.12

\*Non - VOC LAC 33:III Chapter 51 Class III - Toxic Air Pollutants (TAPs)

Written comments, written requests for a public hearing or written requests for notification of the final decision regarding this permit action may be submitted to Ms. Soumaya Ghosn at LDEQ, Public Participation Group, P.O. Box 4313, Baton Rouge, LA 70821-4313. **Written comments and/or written requests must be received by 12:30 p.m., Monday, May 8, 2006.** Written comments will be considered prior to a final permit decision.

If LDEQ finds a significant degree of public interest, a public hearing will be held. LDEQ will send notification of the final permit decision to the applicant and to each person who has submitted written comments or a written request for notification of the final decision.

The permit application, initial Part 70 air operating permit and additional information dated April 19, 2002, July 19, 2005, and December 30, 2005 are available for review at the LDEQ, Public Records Center, Room 127, 602 North 5<sup>th</sup> Street, Baton Rouge, LA. Viewing hours are from 8:00 a.m. to 4:30 p.m., Monday through Friday (except holidays). Additional copies may be reviewed at the Iberville Parish Library, East Iberville Branch, 5715 Monticello Street, St. Gabriel LA 70776 and the Ascension Parish Library, Gonzales Branch, 708 South Irma Boulevard, Gonzales LA 70737 .

Inquiries or requests for additional information regarding this permit action should be directed to Kermit Wittenburg, LDEQ, Permits Division, P.O. Box 4313, Baton Rouge, LA 70821-4313, phone (225) 219-3110.

Persons wishing to be included on the LDEQ permit public notice mailing list or for other public participation related questions should contact the Public Participation Group in writing at LDEQ, P.O. Box 4313, Baton Rouge, LA 70821-4313, by email at [maillistrequest@ldeq.org](mailto:maillistrequest@ldeq.org) or contact the LDEQ Customer Service Center at (225) 219-LDEQ (219-5337).

**Permit public notices including electronic access to the proposed permit and statement of basis** can be viewed at the LDEQ permits public notice webpage at [www.deq.state.la.us/news/PubNotice/](http://www.deq.state.la.us/news/PubNotice/) and general information related to the public participation in permitting activities can be viewed at [www.deq.louisiana.gov/portal/tabcid/2198/Default.aspx](http://www.deq.louisiana.gov/portal/tabcid/2198/Default.aspx).

Alternatively, individuals may elect to receive the permit public notices via email by subscribing to the LDEQ permits public notice List Server at [http://www.state.la.us/ldbc/listservpage/ldeq\\_pn\\_listserv.htm](http://www.state.la.us/ldbc/listservpage/ldeq_pn_listserv.htm).

All correspondence should specify **AI3732, Permit Number 2241-V1, and Activity Tracking Number PER19960001**.

**Publication date:** Thursday, April 6, 2006 in The Advocate & the Plaquemine Post South  
Friday, April 7, 2006 in the Gonzales Weekly

**AIR PERMIT BRIEFING SHEET**  
**AIR PERMITS DIVISION**  
**LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**PCS Nitrogen Fertilizer LP – Ammonia Group - Geismar Agricultural Nitrogen & Phosphate Plant**

**Agency Interest No.: 3732**

**PCS Nitrogen Fertilizer LP**

**Geismar, Ascension and Iberville Parishes, Louisiana**

**I. Background**

PCS Nitrogen Fertilizer LP, Ammonia Group at the Geismar Agricultural Nitrogen & Phosphate Plant, an existing fertilizer facility began operation in 1967 as Allied Chemical Corporation. Permit 359 was issued on September 4, 1974 to allow the installation of a fuel oil standby system. Permit No. 731 was issued on May 20, 1977 to allow for the expansion of the Urea plant from 2,700 tons per day (tpd) to a 4,350 tpd plant. An exemption was issued October 5, 1983 to allow for the installation of Urea Separators, ID's 93 and 94. Permit No. 1940 was issued on December 22, 1984 to allow for an alternate fuel monitoring method. Arcadian Fertilizer, LP purchased the facility from Allied Chemical on June 4, 1984. The Ammonia Plant was issued a state consolidated permit on December 23, 1993 under Permit No. 2241 to include the Ammonia production, Urea production and the Ammonia Cogeneration Plant. The facility currently operates under Permit No. 2241 (M-1), issued September 26, 1994 which allowed for the combustion of purge gas in the Ammonia Reformer. PSD Permit PSD-LA-617 was issued on March 9, 1998 to account for increases in NO<sub>x</sub> and CO from the Ammonia Reformer. Arcadian Fertilizer, LP changed the company name to PCS Nitrogen Fertilizer LP, effective March 6, 1997. Small source permit 2545 was issued June 11, 1998 to allow for the construction of an Ammonia plant emergency flare. General Permit 2241-V0 was issued on July 30, 1999 to allow for the replacement of the co-generation turbine. This is the Part 70 operating permit for the Ammonia Group.

**II. Origin**

A permit application and Emission Inventory Questionnaire were submitted by Arcadian Fertilizer, L.P. on October 15, 1996 requesting a Part 70 operating permit. An amended permit application was submitted on February 12, 1998. A permit reconciliation application was submitted on April 19, 2002. A second permit reconciliation application was received on July 19, 2005. Additional information dated December 30, 2005 and February 10, 2006 was also received.

**III. Description**

The ammonia group is divided into four operations: the Ammonia Plant, the Urea Plant, the Solutions Plant, and Product Storage and Loading.

The Ammonia Plant is a conventional 1,650 tons per day Kellogg unit. Ammonia is produced by reacting nitrogen and hydrogen over a catalyst. The nitrogen and hydrogen are obtained from air, natural gas, and steam. Carbon Dioxide is a byproduct used as a raw material in the manufacture of urea at the Urea plant.

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The 1,350 tons per day Urea Plant reacts ammonia and carbon dioxide under pressure to form urea and carbamate. The latter decomposes to ammonia and carbon dioxide at reduced pressure. Free ammonia is collected and re-introduced into the process or transported to the Nitric Acid Plants 3 and 4 and to the Ammonium Nitrate Plants 1 and 2 as a raw material. Excess carbon dioxide is collected and vented to the atmosphere.

The Solutions Area uses products manufactured in other areas of the complex as raw materials to mix agricultural chemical solutions including URAN™.

The Product Storage and Loading Area covers storage of ammonia group products and a variety of material handling activities, including dock activities. Emissions associated with unloading phosphate rock at the dock and conveying it to the Phosphoric Acid Plant are included in Permit No. 2276-V0.

PCS Nitrogen Fertilizer LP is modifying the Ammonia Group by deleting the Ammonia Plant Co-generation Unit. PCS has permanently shutdown the 24 megawatt electric generator and associated natural gas fired turbine. No other modifications are planned, but PCS is incorporating some previously unpermitted auxiliary equipment as well as miscellaneous authorizations to construct and other small source and general permits. The changes in emissions are almost totally due to a reconciliation of the emission rates, based upon the most recent stack testing of the production units or updates to AP-42 emission factors. The increase in particulate is almost exclusively due to including emissions from the cooling tower. The nitrogen oxide and carbon monoxide emission increases are addressed in permit PSD-LA-617. The increases in VOC's are from when the Urea Plant is down and the Ammonia Plant Carbon Dioxide Vent has all emissions vented to the atmosphere.

Estimated emissions in tons per year are as follows:

<u>Pollutant</u>	<u>Before</u>	<u>After</u>	<u>Change</u>
PM <sub>10</sub>	29.50	142.69	+113.19
SO <sub>2</sub>	3.90	2.52	-1.38
NO <sub>x</sub>	1,280.09	1806.24	+526.15
CO	187.59	393.42	+205.83
VOC	12.41	100.55	+88.14
H <sub>2</sub> SO <sub>4</sub> (Sulfuric Acid)*	Not Reported	0.10	+0.10
Ammonia*	459.02	425.22	-33.80
Chlorine*	Not Reported	2.26	+2.26
Hydrogen Sulfide*	Not Reported	0.03	+0.03
Methanol*	Not Reported	21.23	+21.23
Nitric Acid*	Not Reported	3.12	+3.12

\*LAC 33:III Chapter 51 Class III - Toxic Air Pollutants (TAPs): Methanol is included in VOC emissions

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Geismar, Ascension and Iberville Parishes, Louisiana

**IV. Type of Review**

This permit was reviewed for compliance with 40 CFR 70, National Emission Standards for Hazardous Air Pollutants (NESHAP) and the Louisiana Air Quality Regulations. Prevention of Significant Deterioration (PSD) and New Source Performance Standards (NSPS) do not apply.

This facility is a major source of toxic air pollutants (TAPs) pursuant to LAC 33:III, Chapter 51.

**V. Credible Evidence**

Notwithstanding any other provisions of any applicable rule or regulation or requirement of this permit that state specific methods that may be used to assess compliance with applicable requirements, pursuant to 40 CFR Part 70 and EPA's Credible Evidence Rule, 62 Fed. Reg. 8314 (Feb. 24, 1997), any credible evidence or information relevant to whether a source would have been in compliance with applicable requirements if the appropriate performance or compliance test or procedure had been performed shall be considered for purposes of Title V compliance certifications. Furthermore, for purposes of establishing whether or not a person has violated or is in violation of any emissions limitation or standard or permit condition, nothing in this permit shall preclude the use, including the exclusive use, by any person of any such credible evidence or information.

**VI. Public Notice**

A notice requesting public comment on the permit was published in *The Advocate*, Baton Rouge, on <date>, 2005; and in the <local paper>, <local town>, on <date>, 2005. A copy of the public notice was mailed to concerned citizens listed in the Office of Environmental Services Public Notice Mailing List on <date>. The draft permit was also submitted to US EPA Region VI on <date>. All comments will be considered prior to the final permit decision.

**VII. Effects on Ambient Air**

Dispersion Model(s) Used: ISCST3 (Modeling was performed for facility wide emissions.)

Pollutant	Time Period	Calculated Maximum Ground Level Concentration	Louisiana Toxic Air Pollutant Ambient Air Quality Standard or (National Ambient Air Quality Standard {NAAQS})
SO <sub>2</sub>	Annual	13.83 µg/m <sup>3</sup>	(80 µg/m <sup>3</sup> )
SO <sub>2</sub>	24-hour avg.	250.72 µg/m <sup>3</sup>	(365 µg/m <sup>3</sup> )

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**Agency Interest No.: 3732**

**PCS Nitrogen Fertilizer LP**

**Geismar, Ascension and Iberville Parishes, Louisiana**

Pollutant	Time Period	Calculated Maximum Ground Level Concentration	Louisiana Toxic Air Pollutant Ambient Air Quality Standard or (National Ambient Air Quality Standard {NAAQS})
SO <sub>2</sub>	3-hour avg.	737.48 µg/m <sup>3</sup>	(1300 µg/m <sup>3</sup> )
H <sub>2</sub> SO <sub>4</sub>	8-hour avg.	16.9 µg/m <sup>3</sup>	23.80 µg/m <sup>3</sup>
PM <sub>10</sub>	24-hour	127.66	(150 µg/m <sup>3</sup> )
PM <sub>10</sub>	Annual	33.04	(50 µg/m <sup>3</sup> )

**VIII. General Condition XVII Activities**

Work Activity	Schedule	NH <sub>3</sub>	NO <sub>X</sub>	CO	VOC	Emission Rates - lbs
AA-GC-1  Hot Product Pumps	8 times per year	12.3	6.14	-	-	
Clearing to Process Flare						
AA-GC-2  Cold Products Pumps	10 times per year	15.4	7.68	-	-	
Clearing to Process Flare						
AA-GC-3  Zinc Oxide Chamber	Once per year	-	-	-	-	744.13
AA-GC-4  Faustina/Cajun Incoming Pressure Controllers and Associated Piping	2 times per year	-	-	-	-	140.73
AA-GC-5  Desulfurizers	2 times per year per vessel	-	-	-	-	1,528.02
AA-GC-6  Shifters	Once per year	-	-	216.11	-	
AA-GC-7  Prism Unit	6 times per year	19.46	-	-	-	
AA-GC-8  Mole Sieve Dryers	6 times per year	-	-	-	-	
AA-GC-9  Miscellaneous Activities	2 times per year  Except instrument calibrations which are performed daily	26.76	-	297.15	4,228.0	
AA-GC-10  Ammonia Plant	Once per year	1.9	0.95	-	-	

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**PCS Nitrogen Fertilizer LP**

**Geismar, Ascension and Iberville Parishes, Louisiana**

Work Activity	Schedule	NH <sub>3</sub>	NO <sub>x</sub>	CO	VOC	Emission Rates - lbs
<b>Refrigeration System</b>						
AA-GC-11	Once per year	52.9	26.46	-	-	
Synthesis Gas Suction Chillers (132-CA, B)						
AA-GC-12	2 times per year	52.9	26.46	-	-	
Purge Gas Chiller (126-C)						
AA-GC-13	12 times per year	3.07	1.54	-	-	
Product Line Clearing to Process Flare						
AU-GC-1	4 times per year	18.36	9.18	-	-	
Urea Plant Vessel and Line Clearing to Flare						
AU-GC-2	416 times per year	189.7	94.85	-	-	
Aldridge Pump Clearing						
AU-GC-3	8 times per year	8.0	4.0	-	-	
Ammonia Compressor						
AU-GC-4	52 times per year	1.34	0.67	-	-	
Line Clearing to Process Flare						
AU-GC-5	12 times per year	36.87	18.43	-	-	
Reflux Pump Clearing to Process Flare						
ASL-GC-1	12 times per year	18.4	9.22	-	-	
Barge Loading Pump						
ASL-GC-2	10 times per year	74.1	37.05	-	-	
Ammonia Barge Loading/Unloading System						
ASL-GC-3	4 compressors at 6 times each per year	3.4	1.71	-	-	
Ammonia Storage Frick Compressor Skid	Entire skid 4 times per year					
ASL-GC-4	10 times per year	30.7	15.36	-	-	
Ammonia Distribution Pumps						

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**IX. Insignificant Activities**

ID No.:	Description	Citation
AA-IS-1	Ammonia Lube Oil Storage Tank	LAC 33:III.501.B.5.A.3.
AA-IS-2	MDEA Storage Pumps Sump	LAC 33:III.501.B.5.A.3.
AA-IS-3	Caustic Storage Tank # 1	LAC 33:III.501.B.5.A.10.
AA-IS-4	Caustic Storage Tank # 2	LAC 33:III.501.B.5.A.10.
AA-IS-5	Caustic Storage Day Tank	LAC 33:III.501.B.5.A.10.
AA-IS-6	Decarbonator Tank	LAC 33:III.501.B.5.A.3.
AA-IS-7	Sulfuric Acid Regeneration Tank	LAC 33:III.501.B.5.A.3.
AA-IS-8	Betz Tank 7081 Water Treatment Tank	LAC 33:III.501.B.5.A.3.
AU-IS-1	CO <sub>2</sub> Compressors Blow Down Drum Vent	LAC 33:III.501.B.5.A.3.
AU-IS-2	CO <sub>2</sub> Sump	LAC 33:III.501.B.5.A.3.
AU-IS-3	Process MEA Storage Tank	LAC 33:III.501.B.5.A.3.
AU-IS-4	Urea Reactor Indicator Tanks	LAC 33:III.501.B.5.A.3.
AU-IS-5	Degraded MEA Storage Tank	LAC 33:III.501.B.5.A.3.
AU-IS-6	600W Oil Tank	LAC 33:III.501.B.5.A.3.
AU-IS-7	Artic Turbine 150 Oil Tank	LAC 33:III.501.B.5.A.3.
AU-IS-8	Gargoyle Extra Heavy Oil Tank	LAC 33:III.501.B.5.A.3.
AU-IS-9	T-160 A/B/C Manzel Lube Oil Tanks	LAC 33:III.501.B.5.A.2.
AU-IS-10	T-161 A/B Ammonia Cylinder Manzel Lube Oil Tanks	LAC 33:III.501.B.5.A.2.
AU-IS-11	T-162 A/B/C Manzel Oil Tanks	LAC 33:III.501.B.5.A.2.
AU-IS-12	T-163 A/B/C/D Aldridge Lumation Pump Oil Tanks	LAC 33:III.501.B.5.A.2.
AS-IS-1	Poly-N Tank	LAC 33:III.501.B.5.A.3.
AS-IS-2	NO <sub>x</sub> Out Tank	LAC 33:III.501.B.5.A.2.
AS-IS-3	BETZ Endcor UAN 9764 Tank # 1	LAC 33:III.501.B.5.A.3.
AS-IS-4	BETZ Endcor UAN 9764 Tank # 2	LAC 33:III.501.B.5.A.3.

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**PCS Nitrogen Fertilizer LP**  
**Geismar, Ascension and Iberville Parishes, Louisiana**

**X. Table 1. Applicable Louisiana and Federal Air Quality Requirements**

ID No.: Description	LAC 33:III Chapter											
	5▲	9	11	13	15	2103	2104*	2107	2111	2113	2115	22
GRP 31 Ammonia and Urea Process Area	1	1	1					1		1	1	1
EQT 2 AA-4 Ammonia Plant Process Flare		1		1								1
EQT 93 AA-1 - Ammonia Plant Primary Reformer and Auxiliary Boiler	1	1	1	1				1				1
EQT 94 AA-10 - Degasifier												1
EQT 95 AA-11 - Sour Oil Degasifier 103 J												1
EQT 96 AA-12 - Sour Oil Degasifier 105 J												1
EQT 97 AA-13 - Ammonia Plant Slop Oil Tank												
EQT 98 AA-14 - Amine Solutions Tank (114F)												1
EQT 99 AA-6 - Ammonia Plant Cooling Tower												1
EQT 100 AA-7 - Ammonia Plant Startup Heater												
EQT 101 AA-8 - Sulfuric Acid Storage Tank												1
EQT 102 AA-9 - Organic Sulfur Removal Regeneration												1
EQT 103 AS-1a - 230VE001A Water Storage Tank												1
EQT 104 AS-1b - 230VE001B Water Storage Tank												1
EQT 105 AS-1c - 230VE001C Water Storage Tank												1
EQT 106 AS-1d - 117A Solutions Area Wastewater Sump												1
EQT 107 AS-1e - V-101 Wastewater Storage Tank												1

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ID No.: Description	LAC 33:III, Chapter																	
	5▲	9	11	13	15	2103	2104*	2107	2111	2113	2115	22	2305	29*	51*	53	56	59
EQT 108 AS-1f - V-103A Wastewater Storage Tank																		1
EQT 109 ASL-1 - Ammonia Plant Storage Flare	1																	1
EQT 110 ASL-10 - Solutions/Ammonia/AN Railcar Loading																		1
EQT 111 ASL-11 - Solutions Truck Loading																		1
EQT 112 ASL-12 - Truck and Rail Loading Wastewater Sumps																		1
EQT 113 ASL-14 - Anhydrous Ammonia Loading/Unloading																		1
EQT 114 ASL-15 - Ammonia Truck Loading/Unloading																		1
EQT 115 ASL-16 - Ammonia Railcar Loading/Unloading																		1
EQT 116 ASL-2 - Urea Storage Tank No. 1																		1
EQT 117 ASL-3 - Urea Storage Tank No. 2																		1
EQT 118 ASL-4 - Urea Storage Tank No. 3																		1
EQT 119 ASL-5 - Urea Storage Tank No. 4																		1
EQT 120 ASL-6 - Urea Storage Tank No. 5																		1
EQT 121 ASL-7 - Urea Storage Tank No. 6																		1
EQT 122 ASL-8 - Urea Storage Tank No. 7																		1
EQT 123 ASL-9 - Dock Loading/Unloading																		1
EQT 124 AU-3 - Urea Storage Tank FB-310																		1

**LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

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 PCS Nitrogen Fertilizer LP

**Geismar, Ascension and Iberville Parishes, Louisiana**

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ID No.: Description	LAC 33:III.Chapter																	
	5▲	9	11	13	15	2103	2104*	2107	2111	2113	2115	22	2305	29*	51*	53	56	59
EQT 125 AU-4 - U-60 Scrubber																		1
EQT 126 AU-5 - Oil Separator Tank																		1
EQT 127 AU-6 - CO2 Knockout Drum																		1
EQT 128 AU-7 - Urea Hotwell																		1
EQT 129 AU-8 - MEA Storage Tank V329A																		1
EQT 130 AU-9 - MEA Storage Tank V329B																		1
FUG 13 AA-3 - Ammonia Plant Fugitives																		1
FUG 14 AS-3 - Solutions Area Fugitives																		1
FUG 15 ASL-13 - Dock Facilities Fugitives																		1
FUG 16 AU-2 - Urea Plant Fugitives																		1
RLP 8 AA-2 - Ammonia Plant Carbon Dioxide Vent																		1
RLP 9 AU-1 - Urea Plant Desorber Carbon Dioxide Vent																		1
GRP 29 AS-1 - Solutions Water and Wastewater Storage Tanks																		1
GRP 33 Ammonia Carbon Dioxide Vent 48 percent (Alternate Scenario)																		1

\* The regulations indicated above are State Only regulations.

▲ All LAC 33:III Chapter 5 citations are federally enforceable including LAC 33:III.501.C.6 citations, except when the requirement found in the “Specific Requirements” report specifically states that the regulation is State Only.

## LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

PCS Nitrogen Fertilizer LP – Ammonia Group - Geismar Agricultural Nitrogen & Phosphate Plant

Agency Interest No.: 3732

PCS Nitrogen Fertilizer LP

Geismar, Ascension and Iberville Parishes, Louisiana

### **KEY TO MATRIX**

- 1 -The regulations have applicable requirements that apply to this particular emission source.
    - The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements.
  - 2 -The regulations have applicable requirements that apply to this particular emission source but the source is currently exempt from these requirements due to meeting a specific criterion, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date.
  - 3 -The regulations apply to this general type of emission source (i.e. vents, furnaces, towers, and fugitives) but do not apply to this particular emission source.
- Blank – The regulations clearly do not apply to this type of emission source.

**LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**PCS Nitrogen Fertilizer LP - Ammonia Group - Geismar Agricultural Nitrogen & Phosphate Plant**  
 Agency Interest No.: 3732  
**PCS Nitrogen Fertilizer LP**  
**Geismar, Ascension and Iberville Parishes, Louisiana**

**X. Table 1. Applicable Louisiana and Federal Air Quality Requirements**

ID No.:	Description	40 CFR 60 NSPS						40 CFR 61						40 CFR 63 NESHAP						40 CFR		
		K	Ka	Kb	Db	Dc	T	U	A	M	R	A	Q	AA	BB	HHH	64	68	82			
GRP 31	Ammonia and Urea Process Area																					
EQT 2	AA-4 Ammonia Plant Process Flare																					
EQT 93	AA-1 - Ammonia Plant Primary Reformer and Auxiliary Boiler																					
EQT 94	AA-10 - Degasifier																					
EQT 95	AA-11 - Sour Oil Degasifier 103 J																					
EQT 96	AA-12 - Sour Oil Degasifier 105 J																					
EQT 97	AA-13 - Ammonia Plant Slop Oil Tank																					
EQT 98	AA-14 - Amine Solutions Tank (114F)																					
EQT 99	AA-6 - Ammonia Plant Cooling Tower																					
EQT 100	AA-7 - Ammonia Plant Startup Heater																					
EQT 101	AA-8 - Sulfuric Acid Storage Tank																					
EQT 102	AA-9 - Organic Sulfur Removal Regeneration																					
EQT 103	AS-1a - 230VE001A Water Storage Tank																					
EQT 104	AS-1b - 230VE001B Water Storage Tank																					
EQT 105	AS-1c - 230VE001C Water Storage Tank																					
EQT 106	AS-1d - 117A Solutions Area Wastewater Sump																					
EQT 107	AS-1e - V-101 Wastewater Storage Tank																					

**LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**PCS Nitrogen Fertilizer LP – Ammonia Group - Geismar Agricultural Nitrogen & Phosphate Plant**  
 Agency Interest No.: 3732  
**PCS Nitrogen Fertilizer LP**  
**Geismar, Ascension and Iberville Parishes, Louisiana**

**X. Table 1. Applicable Louisiana and Federal Air Quality Requirements**

ID No.:	Description	40 CFR 60 NSPS										40 CFR 61										40 CFR					
		K	Ka	Kb	Db	Dc	T	U	A	M	R	A	Q	AA	BB	HHH	64	68	82								
EQT 108	AS-1f - V-103A Wastewater Storage Tank																										
EQT 109	ASL-1 - Ammonia Plant Storage Flare																										
EQT 110	ASL-10 - Solutions/Ammonia/AN Railcar Loading																										
EQT 111	ASL-11 - Solutions Truck Loading																										
EQT 112	ASL-12 - Truck and Rail Loading Wastewater Sumps																										
EQT 113	ASL-14 - Anhydrous Ammonia Loading/Unloading																										
EQT 114	ASL-15 - Ammonia Truck Loading/Unloading																										
EQT 115	ASL-16 - Ammonia Railcar Loading/Unloading																										
EQT 116	ASL-2 - Uran Storage Tank No. 1																										
EQT 117	ASL-3 - Uran Storage Tank No. 2																										
EQT 118	ASL-4 - Uran Storage Tank No. 3																										
EQT 119	ASL-5 - Uran Storage Tank No. 4																										
EQT 120	ASL-6 - Uran Storage Tank No. 5																										
EQT 121	ASL-7 - Uran Storage Tank No. 6																										
EQT 122	ASL-8 - Uran Storage Tank No. 7																										
EQT 123	ASL-9 - Dock Loading/Unloading																										
EQT 124	AU-3 - Urea Storage Tank FB-310																										

**LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**PCS Nitrogen Fertilizer LP – Ammonia Group - Geismar Agricultural Nitrogen & Phosphate Plant**  
 Agency Interest No.: 3732  
**PCS Nitrogen Fertilizer LP**  
**Geismar, Ascension and Iberville Parishes, Louisiana**

**X. Table 1. Applicable Louisiana and Federal Air Quality Requirements**

ID No.:	Description	40 CFR 60 NSPS						40 CFR 61						40 CFR 63 NESHPAP						40 CFR	
		K	Ka	Kb	Db	Dc	T	U	A	M	R	A	Q	AA	BB	HHH	64	68	82		
EQT 125	AU-4 - U-60 Scrubber																				
EQT 126	AU-5 - Oil Separator Tank																				
EQT 127	AU-6 - CO2 Knockout Drum																				
EQT 128	AU-7 - Urea Hotwell																				
EQT 129	AU-8 - MEA Storage Tank V329A																				
EQT 130	AU-9 - MEA Storage Tank V329B																				
FUG 13	AA-3 - Ammonia Plant Fugitives																				
FUG 14	AS-3 - Solutions Area Fugitives																				
FUG 15	ASL-13 - Dock Facilities Fugitives																				
FUG 16	AU-2 - Urea Plant Fugitives																				
AA-2 - Ammonia Plant Carbon Dioxide Vent																					
RLP 8	AU-1 - Urea Plant Desorber Carbon Dioxide Vent																				
RLP 9	AS-1 - Solutions Water and Wastewater Storage Tanks																				
GRP 29	Ammonia Carbon Dioxide Vent 48 percent (Alternate Scenario)																				
GRP 33																					

**KEY TO MATRIX**

**LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**PCS Nitrogen Fertilizer LP – Ammonia Group - Geismar Agricultural Nitrogen & Phosphate Plant**

Agency Interest No.: 3732

**PCS Nitrogen Fertilizer LP**

**Geismar, Ascension and Iberville Parishes, Louisiana**

- 1    -The regulations have applicable requirements that apply to this particular emission source.  
      -The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements.
- 2    -The regulations have applicable requirements that apply to this particular emission source but the source is currently exempt from these requirements due to meeting a specific criterion, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date.
- 3    -The regulations apply to this general type of emission source (i.e. vents, furnaces, towers, and fugitives) but do not apply to this particular emission source.

Blank – The regulations clearly do not apply to this type of emission source.

## LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

PCS Nitrogen Fertilizer LP – Ammonia Group - Geismar Agricultural Nitrogen & Phosphate Plant  
Agency Interest No.: 3732  
PCS Nitrogen Fertilizer LP  
Geismar, Ascension and Iberville Parishes, Louisiana

XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
GRP 31 Ammonia and Urea Process Area	Compliance Assurance Monitoring (CAM) [40 CFR 64]	EXEMPT. 40 CFR 64.5 Deadlines for Submittals allows the facility to submit the CAM plan at the first renewal of the Part 70 Operating permit. Therefore, the facility does not need to comply with the CAM regulations until the first renewal
GRP 31 Ammonia and Urea Process Area	NESHAPS Subpart M-National Emission Standard for Asbestos [40 CFR 61.145] Emission Standards for Asbestos [LAC 33:III.5151]	EXEMPT. Shall comply with the regulations under this Subpart if triggered. Applies to owner or operator of a facility being demolished or renovated.
EQT 2, EQT 94 – 96, 98 – 99, 101 - 130, FUG 13 – 16, and RLP 8-9	Comprehensive Toxic Air Pollutant Emission Control Program [LAC 33:III. Chapter 51]	EXEMPT. All associated equipment emit pollutants, which are Class III TAPs. These pollutants are not subject to MACT control per LAC 33:III.5109.A. Emissions must be included in the annual TEDI submittal required per LAC 33:III.5107.A.2.
EQT 2, 93, 100, and 109 Flares and Ammonia Startup Heaters	Emission Standards for Sulfur Dioxide Recordkeeping and Reporting [LAC 33:III.1503.C] Emission Standards for Sulfur Dioxide Continuous Emissions Monitoring [LAC 33:III.1511.A]	EXEMPT. Unit emits less than 250 tons of SO <sub>2</sub> per year and is exempt from LAC 33:III.1503.C. Unit emits less than 100 tpy and is exempt from continuous monitoring. Record and retain at the site for at least 2 years the data required to demonstrate exemption from SO <sub>2</sub> standards per LAC 33:III.1513. Exemption data shall be reported annually in accordance with LAC 33:III.918.
EQT 99 AA-6 - Ammonia Plant Cooling Tower	National Emission Standards for Hazardous Air Pollutants for Industrial Process Cooling Towers [40 CFR 63, Subpart Q]	DOES NOT APPLY. The facility does not use chromium based water treatment chemicals

The above table provides explanation for both the exemption status or non-applicability of a source cited by 1, 2 or 3 in the matrix presented in Section X (Table 1) of this permit.

## 40 CFR PART 70 GENERAL CONDITIONS

- A. The term of this permit shall be five (5) years from date of issuance. An application for a renewal of this 40 CFR Part 70 permit shall be submitted to the administrative authority no later than six months prior to the permit expiration date. Should a complete permit application not be submitted six months prior to the permit expiration date, a facility's right to operate is terminated pursuant to 40 CFR Section 70.7(c)(ii). Operation may continue under the conditions of this permit during the period of the review of the application for renewal. [LAC 33:III.507.E.1, E.3, E.4, reference 40 CFR 70.6(a)(2)]
- B. The conditions of this permit are severable; and if any provision of this permit or the application of any provision of this permit to any circumstance is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby. [Reference 40 CFR 70.6(a)(5)]
- C. Permittee shall comply with all conditions of the 40 CFR Part 70 permit. Any permit noncompliance constitutes a violation of the Clean Air Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. This permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition. [LAC 33:III.507.B.2, reference 40 CFR 70.6(a)(6)(i) & (iii)]
- D. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. [Reference 40 CFR 70.6(a)(6)(ii)]
- E. This permit does not convey any property rights of any sort, or an exclusive privilege. [Reference 40 CFR 70.6(a)(6)(iv)]
- F. The permittee shall furnish to the permitting authority, within a reasonable time, any information that the permitting authority may request in writing to determine whether cause exists for modifying, revoking, and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the permitting authority copies of records required to be kept by the permit or, for information claimed to be confidential, the permittee may furnish such records directly to the Administrator along with a claim of confidentiality. A claim of confidentiality does not relieve the permittee of the requirement to provide the information. [LAC 33:III.507.B.2, 517.F, reference 40 CFR 70.6(a)(6)(v)]
- G. Permittee shall pay fees in accordance with LAC 33:III.Chapter 2 and 40 CFR Section 70.6(a)(7). [LAC 33:III.501.C.2, reference 40 CFR 70.6(a)(7)]
- H. Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the permitting authority or authorized representative to perform the following:
  1. enter upon the permittee's premises where a 40 CFR Part 70 source is located or emission-related activity is conducted, or where records must be kept under the conditions of the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(i)];

## 40 CFR PART 70 GENERAL CONDITIONS

2. have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(ii)];
  3. inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(iii)]; and
  4. as authorized by the Clean Air Act, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit or applicable requirements. [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(iv)]
- I. All required monitoring data and supporting information shall be kept available for inspection at the facility or alternate location approved by the agency for a period of at least five (5) years from the date of the monitoring sample, measurement, report, or application. Supporting information includes calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and all reports required by the permit.  
[Reference 40 CFR 70.6(a)(3)(ii)(B)]
- J. Records of required monitoring shall include the following:
1. the date, place as defined in the permit, and time of sampling or measurements;
  2. the date(s) analyses were performed;
  3. the company or entity that performed the analyses;
  4. the analytical techniques or methods used;
  5. the results of such analyses; and
  6. the operating conditions as existing at the time of sampling or measurement.
- [Reference 40 CFR 70.6(a)(3)(ii)(A)]
- K. Permittee shall submit at least semiannually, reports of any required monitoring, clearly identifying all instances of deviations from permitted monitoring requirements, certified by a responsible company official. For previously reported deviations, in lieu of attaching the individual deviation reports, the semiannual report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The semiannual reports shall be submitted to the Office of Environmental Compliance, Surveillance Division by March 31 for the preceding period encompassing July through December and September 30 for the preceding period encompassing January through June. Any quarterly deviation report required to be submitted by March 31 or September 30 in accordance with Part 70 General Condition R may be consolidated with the semi-annual reports required by this general condition as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report. [LAC 33:III.507.H, reference 40 CFR 70.6(a)(3)(iii)(A)]
- L. The permittee shall submit at least semiannual reports on the status of compliance pursuant to 40 CFR Section 70.5 (c) (8) and a progress report on any applicable schedule of compliance pursuant to 40 CFR Section 70.6 (c) (4). [LAC 33:III.507.H.1, reference 40 CFR 70.6(c)(4)]
- M. Compliance certifications per LAC 33:III.507.H.5 shall be submitted to the Administrator as well as the permitting authority. For previously reported compliance deviations, in lieu of

## **40 CFR PART 70 GENERAL CONDITIONS**

attaching the individual deviation reports, the annual report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The compliance certifications shall be submitted to the Office of Environmental Compliance, Surveillance Division by March 31 for the preceding calendar year. [LAC 33:III.507.H.5, reference 40 CFR 70.6(c)(5)(iv)]

- N. If the permittee seeks to reserve a claim of an affirmative defense as provided in LAC 33:III.507.J.2, the permittee shall, in addition to any emergency or upset provisions in any applicable regulation, notify the permitting authority within 2 working days of the time when emission limitations were exceeded due to the occurrence of an upset. In the event of an upset, as defined under LAC 33:III.507.J, which results in excess emissions, the permittee shall demonstrate through properly signed, contemporaneous operating logs, or other relevant evidence that: 1) an emergency occurred and the cause was identified; 2) the permitted facility was being operated properly at the time; and 3) during the emergency the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standard or requirement of the permit. [LAC 33:III.507.J.2, reference 40 CFR 70.6(g)(3)(iv) & (i-iii)]
- O. Permittee shall maintain emissions at a level less than or equal to that provided for under the allowances that the 40 CFR Part 70 source lawfully holds under Title IV of the Clean Air Act or the regulations promulgated thereunder. No permit revision shall be required for increases in emissions that are authorized by allowances acquired pursuant to the acid rain program, provided that such increases do not require a permit revision under any other applicable requirement. No limit shall be placed on the number of allowances held by the source. The source may not, however, use allowances as a defense to noncompliance with any other applicable requirement. Any such allowance shall be accounted for according to the procedures established in regulations promulgated under Title IV of the Clean Air Act. [Reference 40 CFR 70.6(a)(4)]
- P. Any permit issued pursuant to 40 CFR Part 70 may be subject to reopening prior to the expiration of the permit for any of the conditions specified in 40 CFR Section 70.7(f) or LAC 33:III.529. [LAC 33:III.529.A-B, reference 40 CFR 70.7(f)]
- Q. Permittee may request an administrative amendment to the permit to incorporate test results from compliance testing if the following criteria are met:
  1. the changes are a result of tests performed upon start-up of newly constructed, installed, or modified equipment or operations;
  2. increases in permitted emissions will not exceed five tons per year for any regulated pollutant;
  3. increases in permitted emissions of Louisiana toxic air pollutants or of federal hazardous air pollutants would not constitute a modification under LAC 33:III. Chapter 51 or under Section 112 (g) of the Clean Air Act;
  4. changes in emissions would not require new source review for prevention of significant deterioration or nonattainment and would not trigger the applicability of any federally applicable requirement;

## 40 CFR PART 70 GENERAL CONDITIONS

5. changes in emissions would not qualify as a significant modification; and
  6. the request is submitted no later than 12 months after commencing operation. [LAC 33:III.523.A, reference 40 CFR 70.7(d)]
- R. Permittee shall submit prompt reports of all permit deviations as specified below to the Office of Environmental Compliance, Surveillance Division. All such reports shall be certified by a responsible official in accordance with 40 CFR 70.5(d).
1. A written report shall be submitted within 7 days of any emission in excess of permit requirements by an amount greater than the Reportable Quantity established for that pollutant in LAC 33.I.Chapter 39.
  2. A written report shall be submitted within 7 days of the initial occurrence of any emission in excess of permit requirements, regardless of the amount, where such emission occurs over a period of seven days or longer.
  3. A written report shall be submitted quarterly to address all permit deviations not included in paragraphs 1 or 2 above. Unless required by an applicable reporting requirement, a written report is not required during periods in which there is no deviation. The quarterly deviation reports submitted on March 31 and September 30 may be consolidated with the semi-annual reports required by Part 70 General Condition K as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report. For previously reported permit deviations, in lieu of attaching the individual deviation reports, the quarterly report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The schedule for submittal of quarterly reports shall be no later than the dates specified below for any permit deviations occurring during the corresponding specified calendar quarter:
    - a. Report by June 30 to cover January through March
    - b. Report by September 30 to cover April through June
    - c. Report by December 31 to cover July through September
    - d. Report by March 31 to cover October through December
  4. Any written report submitted in advance of the timeframes specified above, in accordance with an applicable regulation, may serve to meet the reporting requirements of this condition provided such reports are certified in accordance with 40 CFR 70.5(d) and contain all information relevant to the permit deviation. Reporting under this condition does not relieve the permittee from the reporting requirements of any applicable regulation, including LAC 33.I.Chapter 39, LAC 33.III.Chapter 9, and LAC 33.III.5107. [Reference 40 CFR 70.6(a)(3)(iii)(B)]
- S. Permittee shall continue to comply with applicable requirements on a timely basis, and will meet on a timely basis applicable requirements that become effective during the permit term. [Reference 40 CFR 70.5(c)(8)(iii)]

## 40 CFR PART 70 GENERAL CONDITIONS

- T. The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B:
1. Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to 40 CFR 82.156;
  2. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158;
  3. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161;
  4. Persons disposing of small appliances, MVACs, and MVAC-like appliances must comply with recordkeeping requirements pursuant to 40 CFR 82.166. ("MVAC-like appliance" as defined at 40 CFR 82.152);
  5. Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to 40 CFR 82.156; and
  6. Owners/operators of appliances normally containing 50 or more pounds of refrigerant must keep records of refrigerant purchased and added to such appliances pursuant to 40 CFR 82.166. [Reference 40 CFR 82, Subpart F]
- U. If the permittee performs a service on motor (fleet) vehicles when this service involves ozone-depleting substance refrigerant (or regulated substitute substance) in the motor vehicle air conditioner (MVAC), the permittee is subject to all the applicable requirements as specified in 40 CFR Part 82, Subpart B, Servicing of Motor Vehicle Air Conditioners.
- The term "motor vehicle" as used in Subpart B does not include a vehicle in which final assembly of the vehicle has not been completed. The term "MVAC" as used in Subpart B does not include the air-tight sealed refrigeration system used as refrigerated cargo, or system used on passenger buses using HCFC-22 refrigerant. [Reference 40 CFR 82, Subpart B]
- V. Data availability for continuous monitoring or monitoring to collect data at specific intervals: Except for monitoring malfunctions, associated repairs, and required quality assurance or control activities (including calibration checks and required zero and span adjustments), the permittee shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the emissions unit is operating. For purposes of reporting monitoring deviations under Part 70 General Conditions K and R, and unless otherwise provided for in the Specific Requirements (or Table 3) of this permit, the minimum degree of data availability shall be at least 90% (based on a monthly average) of the operating time of the emissions unit or activity being monitored. This condition does not apply to Leak Detection and Repair (LDAR) programs for fugitive emissions (e.g., 40 CFR 60 Subpart VV, 40 CFR 63 Subpart H).

**LOUISIANA AIR EMISSION PERMIT  
GENERAL CONDITIONS**

- I. This permit is issued on the basis of the emissions reported in the application for approval of emissions and in no way guarantees that the design scheme presented will be capable of controlling the emissions to the type and quantities stated. Failure to install, properly operate and/or maintain all proposed control measures and/or equipment as specified in the application and supplemental information shall be considered a violation of the permit and LAC 33:III.501. If the emissions are determined to be greater than those allowed by the permit (e.g. during the shakedown period for new or modified equipment) or if proposed control measures and/or equipment are not installed or do not perform according to design efficiency, an application to modify the permit must be submitted. All terms and conditions of this permit shall remain in effect unless and until revised by the permitting authority.
- II. The permittee is subject to all applicable provisions of the Louisiana Air Quality Regulations. Violation of the terms and conditions of the permit constitutes a violation of these regulations.
- III. The Emission Rates for Criteria Pollutants, Emission Rates for TAP/HAP & Other Pollutants, and Specific Requirements sections or, where included, Emission Inventory Questionnaire sheets establish the emission limitations and are a part of the permit. Any operating limitations are noted in the Specific Requirements or, where included, Tables 2 and 3 of the permit. The synopsis is based on the application and Emission Inventory Questionnaire dated October 15, 1996. An amended permit application was submitted on February 12, 1998. A permit reconciliation application was submitted on April 19, 2002. A second permit reconciliation application was received on July 19, 2005. Additional information dated December 30, 2005 and February 10, 2006 was also received.
- IV. This permit shall become invalid, for the sources not constructed, if:
  - A. Construction is not commenced, or binding agreements or contractual obligations to undertake a program of construction of the project are not entered into, within two (2) years (18 months for PSD permits) after issuance of this permit, or;
  - B. If construction is discontinued for a period of two (2) years (18 months for PSD permits) or more.The administrative authority may extend this time period upon a satisfactory showing that an extension is justified.  
  
This provision does not apply to the time period between construction of the approved phases of a phased construction project. However, each phase must commence construction within two (2) years (18 months for PSD permits) of its projected and approved commencement date.
- V. The permittee shall submit semiannual reports of progress outlining the status of construction, noting any design changes, modifications or alterations in the construction schedule which have or may have an effect on the emission rates or ambient air quality levels. These reports shall continue to be submitted until such time as construction is certified as being complete. Furthermore, for any significant change in the design, prior approval shall be obtained from the Office of Environmental Services, Air Permits Division.
- VI. The permittee shall notify the Department of Environmental Quality, Office of Environmental Services, Air Permits Division within ten (10) calendar days from the date that construction is

## **LOUISIANA AIR EMISSION PERMIT GENERAL CONDITIONS**

certified as complete and the estimated date of start-up of operation. The appropriate Regional Office shall also be so notified within the same time frame.

- VII. Any emissions testing performed for purposes of demonstrating compliance with the limitations set forth in paragraph III shall be conducted in accordance with the methods described in the Specific Conditions and, where included, Tables 1, 2, 3, 4, and 5 of this permit. Any deviation from or modification of the methods used for testing shall have prior approval from the Office of Environmental Assessment, Air Quality Assessment Division.
- VIII. The emission testing described in paragraph VII above, or established in the specific conditions of this permit, shall be conducted within sixty (60) days after achieving normal production rate or after the end of the shakedown period, but in no event later than 180 days after initial start-up (or restart-up after modification). The Office of Environmental Assessment, Air Quality Assessment Division shall be notified at least (30) days prior to testing and shall be given the opportunity to conduct a pretest meeting and observe the emission testing. The test results shall be submitted to the Air Quality Assessment Division within sixty (60) days after the complete testing. As required by LAC 33:III.913, the permittee shall provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits.
- IX. The permittee shall, within 180 days after start-up and shakedown of each project or unit, report to the Office of Environmental Compliance, Surveillance Division any significant difference in operating emission rates as compared to those limitations specified in paragraph III. This report shall also include, but not be limited to, malfunctions and upsets. A permit modification shall be submitted, if necessary, as required in Condition I.
- X. The permittee shall retain records of all information resulting from monitoring activities and information indicating operating parameters as specified in the specific conditions of this permit for a minimum of at least five (5) years.
- XI. If for any reason the permittee does not comply with, or will not be able to comply with, the emission limitations specified in this permit, the permittee shall provide the Office of Environmental Compliance, Surveillance Division with a written report as specified below.
  - A. A written report shall be submitted within 7 days of any emission in excess of permit requirements by an amount greater than the Reportable Quantity established for that pollutant in LAC 33.I.Chapter 39.
  - B. A written report shall be submitted within 7 days of the initial occurrence of any emission in excess of permit requirements, regardless of the amount, where such emission occurs over a period of seven days or longer.
  - C. A written report shall be submitted quarterly to address all emission limitation exceedances not included in paragraphs A or B above. The schedule for submittal of quarterly reports shall be no later than the dates specified below for any emission limitation exceedances occurring during the corresponding specified calendar quarter:
    - 1. Report by June 30 to cover January through March
    - 2. Report by September 30 to cover April through June
    - 3. Report by December 31 to cover July through September

**LOUISIANA AIR EMISSION PERMIT  
GENERAL CONDITIONS**

4. Report by March 31 to cover October through December
  - D. Each report submitted in accordance with this condition shall contain the following information:
    1. Description of noncomplying emission(s);
    2. Cause of noncompliance;
    3. Anticipated time the noncompliance is expected to continue, or if corrected, the duration of the period of noncompliance;
    4. Steps taken by the permittee to reduce and eliminate the noncomplying emissions; and
    5. Steps taken by the permittee to prevent recurrences of the noncomplying emissions.
  - E. Any written report submitted in advance of the timeframes specified above, in accordance with an applicable regulation, may serve to meet the reporting requirements of this condition provided all information specified above is included. For Part 70 sources, reports submitted in accordance with Part 70 General Condition R shall serve to meet the requirements of this condition provided all specified information is included. Reporting under this condition does not relieve the permittee from the reporting requirements of any applicable regulation, including LAC 33.I.Chapter 39, LAC 33.III.Chapter 9, and LAC 33.III.5107.
- XII. Permittee shall allow the authorized officers and employees of the Department of Environmental Quality, at all reasonable times and upon presentation of identification, to:
- A. Enter upon the permittee's premises where regulated facilities are located, regulated activities are conducted or where records required under this permit are kept;
  - B. Have access to and copy any records that are required to be kept under the terms and conditions of this permit, the Louisiana Air Quality Regulations, or the Act;
  - C. Inspect any facilities, equipment (including monitoring methods and an operation and maintenance inspection), or operations regulated under this permit; and
  - D. Sample or monitor, for the purpose of assuring compliance with this permit or as otherwise authorized by the Act or regulations adopted thereunder, any substances or parameters at any location.
- XIII. If samples are taken under Section XII.D. above, the officer or employee obtaining such samples shall give the owner, operator or agent in charge a receipt describing the sample obtained. If requested prior to leaving the premises, a portion of each sample equal in volume or weight to the portion retained shall be given to the owner, operator or agent in charge. If an analysis is made of such samples, a copy of the analysis shall be furnished promptly to the owner, operator or agency in charge.
- XIV. The permittee shall allow authorized officers and employees of the Department of Environmental Quality, upon presentation of identification, to enter upon the permittee's premises to investigate potential or alleged violations of the Act or the rules and regulations

## **LOUISIANA AIR EMISSION PERMIT GENERAL CONDITIONS**

adopted thereunder. In such investigations, the permittee shall be notified at the time entrance is requested of the nature of the suspected violation. Inspections under this subsection shall be limited to the aspects of alleged violations. However, this shall not in any way preclude prosecution of all violations found.

- XV. The permittee shall comply with the reporting requirements specified under LAC 33:III.919 as well as notification requirements specified under LAC 33:III.927.
- XVI. In the event of any change in ownership of the source described in this permit, the permittee and the succeeding owner shall notify the Office of Environmental Services, Air Permits Division, within ninety (90) days after the event, to amend this permit.
- XVII. Very small emissions to the air resulting from routine operations, that are predictable, expected, periodic, and quantifiable and that are submitted by the permitted facility and approved by the Air Permits Division are considered authorized discharges. Approved activities are noted in the General Condition XVII Activities List of this permit. To be approved as an authorized discharge, these very small releases must:
1. Generally be less than 5 TPY
  2. Be less than the minimum emission rate (MER)
  3. Be scheduled daily, weekly, monthly, etc., or
  4. Be necessary prior to plant startup or after shutdown [line or compressor pressuring/depressuring for example]

These releases are not included in the permit totals because they are small and will have an insignificant impact on air quality. This general condition does not authorize the maintenance of a nuisance, or a danger to public health and safety. The permitted facility must comply with all applicable requirements, including release reporting under LAC 33:I.3901.

- XVIII. Provisions of this permit may be appealed in writing pursuant to La. R.S. 30:2024(A) within 30 days from receipt of the permit. Only those provisions specifically appealed will be suspended by a request for hearing, unless the secretary or the assistant secretary elects to suspend other provisions as well. Construction cannot proceed except as specifically approved by the secretary or assistant secretary. A request for hearing must be sent to the following:

Attention: Office of the Secretary, Legal Services Division  
La. Dept. of Environmental Quality  
Post Office Box 4302  
Baton Rouge, Louisiana 70821-4302

- XIX. Certain Part 70 general conditions may duplicate or conflict with state general conditions. To the extent that any Part 70 conditions conflict with state general conditions, then the Part 70 general conditions control. To the extent that any Part 70 general conditions duplicate any state general conditions, then such state and Part 70 provisions will be enforced as if there is only one condition rather than two conditions.

**EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS**

AI ID: 3732 - PCS Nitrogen Fertilizer LP - Nitrate Group - Geismar Agricultural Nitrogen &amp; Phosphate Plant

Activity Number: PER19960001

Permit Number: 2241-V1

Air - Title V Regular Permit Initial

**All phases**

		Ammonia			Chlorine			Hydrogen sulfide			Methanol			Nitric acid	
Subject Item	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
EQT 002 AA-4	0.50	0.71	2.17												
EQT 094 AA-10	2.56	3.07	11.92							1.81	2.17	7.94			
EQT 095 AA-11	0.09	0.18	0.38												
EQT 096 AA-12	0.32	0.64	1.41												
EQT 098 AA-14	< 0.001	< 0.001	< 0.01												
EQT 099 AA-6				0.38	0.45	1.65									
EQT 101 AA-8							0.25	0.29	0.03						
EQT 102 AA-9				< 0.001								v 0.001			
EQT 103 AS-1a				< 0.001								v 0.001			
EQT 104 AS-1b				< 0.001								v 0.001			
EQT 105 AS-1c				< 0.001								v 0.001			
EQT 106 AS-1d				< 0.001								v 0.001			
EQT 107 AS-1e				< 0.001								v 0.001			
EQT 108 AS-1f				< 0.001								v 0.001			
EQT 109 AS-1	100.20	114.06	0.48												
EQT 110 AS-10	0.10	0.14	0.30												
EQT 111 AS-11	0.41	0.49	1.07												
EQT 112 AS-12	< 0.001	< 0.001	< 0.01							v 0.001	< 0.001	< 0.01	v 0.001	< 0.01	< 0.01

**EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS**

AI ID: 3732 - PCS Nitrogen Fertilizer LP - Nitrate Group - Geismar Agricultural Nitrogen &amp; Phosphate Plant

Activity Number: PER19960001

Permit Number: 2241-V1

Air - Title V Regular Permit Initial

**All phases**

Sulfuric acid			
Subject Item	Avg lb/hr	Max lb/hr	Tons/Year
EQT 002 AA-4			
EQT 094 AA-10			
EQT 095 AA-11			
EQT 096 AA-12			
EQT 098 AA-14			
EQT 099 AA-6			
EQT 101 AA-8	0.021	0.025	0.09
EQT 102 AA-9			
EQT 103 AS-1a			
EQT 104 AS-1b			
EQT 105 AS-1c			
EQT 106 AS-1d			
EQT 107 AS-1e			
EQT 108 AS-1f			
EQT 109 ASL-1			
EQT 110 ASL-10			
EQT 111 ASL-11			
EQT 112 ASL-12			

**EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS**

AI ID: 3732 - PCS Nitrogen Fertilizer LP - Nitrate Group - Geismar Agricultural Nitrogen & Phosphate Plant  
 Activity Number: PER19960001  
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Air - Title V Regular Permit Initial

**All phases**

Ammonia		Chlorine		Hydrogen sulfide		Methanol		Nitric acid	
Subject Item	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
EQT 113 ASL-14	0.16	0.24	0.32						
EQT 114 ASL-15	0.09	0.12	0.40						
EQT 115 ASL-16	0.08	0.12	0.35						
EQT 116 ASL-2	0.004	0.005	0.017				< 0.001	< 0.001	0.001
EQT 117 ASL-3	0.004	0.005	0.017				< 0.001	< 0.001	0.001
EQT 118 ASL-4	0.004	0.005	0.017				< 0.001	< 0.001	0.001
EQT 119 ASL-5	0.002	0.003	0.011				< 0.001	< 0.001	0.001
EQT 120 ASL-6	0.005	0.006	0.021				< 0.001	< 0.001	0.001
EQT 121 ASL-7	0.015	0.017	0.064				< 0.001	< 0.001	0.001
EQT 122 ASL-8	0.015	0.017	0.064				< 0.001	< 0.001	0.001
EQT 123 ASL-9	0.012	2.00	0.05				< 0.001	< 0.001	0.001
EQT 124 AU-3	65.89	112.01	5.61						
EQT 125 AU-4	0.60	0.76	2.63						
EQT 126 AU-5	0.001	0.001	0.003				< 0.001	< 0.001	0.01
EQT 127 AU-6	< 0.001	< 0.001	< 0.01				< 0.001	< 0.001	0.01
EQT 128 AU-7	< 0.001	< 0.001	< 0.01						
EQT 129 AU-8	< 0.001	< 0.001	< 0.01						
EQT 130 AU-9	< 0.001	< 0.001	< 0.01						

## EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 3732 - PCS Nitrogen Fertilizer LP - Nitrate Group - Geismar Agricultural Nitrogen & Phosphate Plant  
 Activity Number: PER19960001  
 Permit Number: 2241-V1  
 Air - Title V Regular Permit Initial

### All phases

Sulfuric acid				
Subject Item	Avg lb/hr	Max lb/hr	Tons/Year	
EQT 113 ASL-14				
EQT 114 ASL-15				
EQT 115 ASL-16				
EQT 116 ASL-2	< 0.001	< 0.001	< 0.01	
EQT 117 ASL-3	< 0.001	< 0.001	< 0.01	
EQT 118 ASL-4	< 0.001	< 0.001	< 0.01	
EQT 119 ASL-5	< 0.001	< 0.001	< 0.01	
EQT 120 ASL-6	< 0.001	< 0.001	< 0.01	
EQT 121 ASL-7	< 0.001	< 0.001	< 0.01	
EQT 122 ASL-8	< 0.001	< 0.001	< 0.01	
EQT 123 ASL-9				
EQT 124 AU-3				
EQT 125 AU-4				
EQT 126 AU-5				
EQT 127 AU-6				
EQT 128 AU-7				
EQT 129 AU-8				
EQT 130 AU-9				

**EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS**

AI ID: 3732 - PCS Nitrogen Fertilizer LP - Nitrate Group - Geismar Agricultural Nitrogen &amp; Phosphate Plant

Activity Number: PER19960001

Permit Number: 2241-V1

Air - Title V Regular Permit Initial

**All phases**

Ammonia		Chlorine			Hydrogen sulfide			Methanol			Nitric acid	
Subject Item	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
FUG 013 AA-3	3.62	4.34	15.85	0.17	0.20	0.61						
FUG 014 AS-3	0.016	0.019	0.07								0.006	0.007
FUG 015 ASL-13	0.25	0.31	1.11									
FUG 016 AU-2	2.28	2.73	9.98									
GRP 029 AS-1	< 0.001	< 0.01								< 0.001		< 0.01
GRP 033	0.25	1.08									3.94	
RLP 008 AA-2	0.83	0.83	3.64									
RLP 009 AU-1	83.83	100.60	367.18							3.03	13.26	

## EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 3732 - PCS Nitrogen Fertilizer LP - Nitrate Group - Geismar Agricultural Nitrogen & Phosphate Plant  
 Activity Number: PER19960001  
 Permit Number: 2241-V1  
 Air - Title V Regular Permit Initial

### All phases

Sulfuric acid			
Subject Item	Avg lb/hr	Max lb/hr	Tons/Year
FUG 013 AA-3	< 0.001	< 0.001	< 0.01
FUG 014 AS-3	< 0.001	< 0.001	< 0.01
FUG 015 ASL-13 AU-2	< 0.001	< 0.001	< 0.01
FUG 016 GRP 029 AS-1			
GRP 033 RLP 008 AA-2			
RLP 009 AU-1			

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals

### Permit Parameter Totals:

Ammonia: 425.22 tons/yr  
 Chlorine: 2.26 tons/yr  
 Hydrogen sulfide: 0.03 tons/yr  
 Methanol: 21.23 tons/yr  
 Nitric acid: 3.12 tons/yr  
 Sulfuric acid: 0.10 tons/yr

### Emission Rates Notes:

EQT 109 Ammonia	Avg lb/hr
EQT 109 Ammonia	Max lb/hr
GRP 033 Ammonia	Avg lb/hr
GRP 033 Ammonia	Tons/Year

This emission rate includes a once per twelve month ammonia release event from tank over pressuring. The release is permitted at a maximum of 9,500 lbs/hr of ammonia routed to the flare for a total of ten hours. Which Months: All Year  
 This emission rate includes a once per twelve month ammonia release event from tank over pressuring. The release is permitted at a maximum of 9,500 lbs/hr of ammonia routed to the flare for a total of ten hours. Which Months: All Year  
 This emission rate is based upon 47.96 % of the stack stream being vented to the atmosphere. The maximum operating scenario emission rates under RLP 08 represents zero percent of the stack stream being routed to the Urea production area, which represents 100% release to the atmosphere. Actual operation can vary between these values. Which Months: All Year  
 This emission rate is based upon 47.96 % of the stack stream being vented to the atmosphere. The maximum operating scenario emission rates under RLP 08 represents zero percent of the stack stream being routed to the Urea production area, which represents 100% release to the atmosphere. Actual

## EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 3732 - PCS Nitrogen Fertilizer LP - Nitrate Group - Geismar Agricultural Nitrogen & Phosphate Plant

Activity Number: PER1996001

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### All phases

GRP 033	Methanol	operation can vary between these values.	Which Months: All Year	This emission rate is based upon 47.96 % of the stack stream being vented to the atmosphere. The maximum operating scenario emission rates under RLP 08 represents zero percent of the stack stream being routed to the Urea production area, which represents 100% release to the atmosphere. Actual operation can vary between these values.
GRP 033	Methanol	Tons/Year		This emission rate is based upon 47.96 % of the stack stream being vented to the atmosphere. The maximum operating scenario emission rates under RLP 08 represents zero percent of the stack stream being routed to the Urea production area, which represents 100% release to the atmosphere. Actual operation can vary between these values.
RLP 008	Ammonia	Avg lb/hr	Which Months: All Year	This emission rate is based upon 100 % of the stack stream being vented to the atmosphere. The alternate operating scenario emission rates under GRP 33 represents the maximum percent of the stack stream being routed to the Urea production area, which represents 47.96% release to the atmosphere. Actual operation can vary between these values.
RLP 008	Ammonia	Max lb/hr	Which Months: All Year	This emission rate is based upon 100 % of the stack stream being vented to the atmosphere. The alternate operating scenario emission rates under GRP 33 represents the maximum percent of the stack stream being routed to the Urea production area, which represents 47.96% release to the atmosphere. Actual operation can vary between these values.
RLP 008	Ammonia	Tons/Year	Which Months: All Year	This emission rate is based upon 100 % of the stack stream being vented to the atmosphere. The alternate operating scenario emission rates under GRP 33 represents the maximum percent of the stack stream being routed to the Urea production area, which represents 47.96% release to the atmosphere. Actual operation can vary between these values.
RLP 008	Methanol	Avg lb/hr	Which Months: All Year	This emission rate is based upon 100 % of the stack stream being vented to the atmosphere. The alternate operating scenario emission rates under GRP 33 represents the maximum percent of the stack stream being routed to the Urea production area, which represents 47.96% release to the atmosphere. Actual operation can vary between these values.
RLP 008	Methanol	Max lb/hr	Which Months: All Year	This emission rate is based upon 100 % of the stack stream being vented to the atmosphere. The alternate operating scenario emission rates under GRP 33 represents the maximum percent of the stack stream being routed to the Urea production area, which represents 47.96% release to the atmosphere. Actual operation can vary between these values.
RLP 008	Methanol	Tons/Year	Which Months: All Year	This emission rate is based upon 100 % of the stack stream being vented to the atmosphere. The alternate operating scenario emission rates under GRP 33 represents the maximum percent of the stack stream being routed to the Urea production area, which represents 47.96% release to the atmosphere. Actual operation can vary between these values.

## SPECIFIC REQUIREMENTS

AI ID: 3732 - PCS Nitrogen Fertilizer LP - Nitrate Group - Geismar Agricultural Nitrogen & Phosphate Plant

Activity Number: PER19960001

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Air - Title V Regular Permit Initial

### EQT002 AA-4 Ammonia Plant Process Flare

- 1 Opacity <= 20 percent, except for a combined total of six hours in any 10 consecutive day period, for burning in connection with pressure valve releases for control over process upsets. [LAC 33:III.1.105]
  - Which Months: All Year Statistical Basis: None specified
- 2 Submit notification: Due to the Office of Environmental Compliance, Emergency and Radiological Services Division, Single Point of Contact (SPOC), as soon as possible after the start of burning of pressure valve releases for control over process upsets. Notify in accordance with LAC 33:I.3923. Notification is required only if the upset cannot be controlled in six hours. [LAC 33:III.1.105]
- 3 Submit report: Due in writing to the Office of Environmental Compliance, Emergency and Radiological Services Division, SPOC, within seven calendar days after startup or shutdown, if flaring was not the result of failure to maintain or repair equipment. Submit report if requesting exemption from the provisions of LAC 33:III.1.105. Explain the conditions and duration of the startup or shutdown and list the steps necessary to remedy, prevent and limit the excess emissions. Minimize flaring and ensure that no ambient air quality standards are jeopardized. [LAC 33:III.1.107]
- 4 Equipment/operational data recordkeeping by electronic or hard copy continuously. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:II Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]
- 5 Flare gas: Heat content > 300 BTU/scf, to ensure destruction of emissions to the flare stack. [LAC 33:III.501.C.6]
- 6 Flare gas: Heat content monitored by gas analysis annually, to insure the heat content is above 300 BTU/scf. [LAC 33:III.501.C.6]
- 7 Flare gas: Heat content recordkeeping by electronic or hard copy annually. [LAC 33:III.501.C.6]
- 8 Presence of a flame monitored by visual inspection/determination daily. [LAC 33:III.501.C.6]
- 9 Presence of a flame recordkeeping by electronic or hard copy daily. [LAC 33:III.501.C.6]
- 10 Develop a corrective action plan for re-lighting the flare. Plan must be kept readily available for immediate implementation in the event the flare needs to be re-lit. [LAC 33:III.501.C.6]
- 11 Emits Class III TAP only. Emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 shall be included in the Annual Emissions Report unless exempted under LAC 33:III.5105.B. (TEDI). [LAC 33:III.5107.A.2]

### EQT093 AA-1 - Ammonia Plant Primary Reformer and Auxiliary Boiler

- 12 Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1.101.B]
  - Which Months: All Year Statistical Basis: None specified
- 13 Total suspended particulate <= 0.6 lb/MMBTU of heat input. [LAC 33:III.1313.C]
  - Which Months: All Year Statistical Basis: None specified
- 14 Equipment/operational data recordkeeping by electronic or hard copy continuously. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:II Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]
- 15 Nitrogen oxides <= 0.23 lb/MMBTU. [LAC 33:III.2201.D.1]
  - Which Months: May-Sep Statistical Basis: Thirty-day rolling average
- 16 Fuel monitored by totalizer continuously. Monitor fuel usage with a totalizing fuel meter. [LAC 33:III.2201.H.2.b.i]
  - Which Months: May-Sep Statistical Basis: None specified

## **SPECIFIC REQUIREMENTS**

AI ID: 3732 - PCS Nitrogen Fertilizer LP • Nitrate Group • Geismar Agricultural Nitrogen & Phosphate Plant

Activity Number: PER19960001

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### **EQT093 AA-1 - Ammonia Plant Primary Reformer and Auxiliary Boiler**

- 17 Diluent - either Oxygen or Carbon dioxide monitored by the regulation's specified method(s) continuously. Monitor oxygen or carbon dioxide with a diluent monitor. [LAC 33:III.2201.H.2.b.ii]
- Which Months: May-Sep Statistical Basis: None specified
- 18 Nitrogen oxides monitored by continuous emission monitor (CEM) continuously. (PSD-LA-617). [LAC 33:III.2201.H.2.b.iii, LAC 33:III.509]
- Which Months: All Year Statistical Basis: None specified
- 19 Carbon monoxide monitored by the regulation's specified method(s) continuously. Monitor carbon monoxide with a CO monitor. [LAC 33:III.2201.H.2.b.iv]
- Which Months: May-Sep Statistical Basis: None specified
- 20 Fuel recordkeeping by electronic or hard copy daily. Record fuel gas composition. [LAC 33:III.2201.H.9]
- 21 Fuel monitored by the regulation's specified method(s) daily. Analyze the fuel gas composition according to the methods listed in LAC 33:III.2201.G.5.g. [LAC 33:III.2201.H.9]
- Which Months: May-Sep Statistical Basis: None specified
- 22 Submit Notification: Due at least 30 days prior to any compliance testing conducted under LAC 33:III.2201.G and any CEMS or PEMS performance evaluation conducted under LAC 33:III.2201.H in order to give DEQ an opportunity to conduct a pretest meeting and observe the emission testing. [LAC 33:III.2201.I.1]
- 23 Submit test results: Due within 60 days after completing the emission testing required in LAC 33:III.2201.I.1. [LAC 33:III.2201.I.1]
- 24 Submit report: Due within 90 days of the end of each quarter for any noncompliance of the applicable emission limitations of LAC 33:III.2201.D or E. Include the information specified in LAC 33:III.2201.I.2.a through I.2.d. [LAC 33:III.2201.I.2]
- 25 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records of the information specified in LAC 33:III.2201.I.3 and I.4 as applicable. [LAC 33:III.2201.I.]
- 26 Conduct a performance/emissions test on the Primary Reformer (EQT 93). Due within 180 days after initial startup (or restart-up after modification or re-commissioning). The stack test's purpose is to demonstrate compliance with the emission limits of this permit. Test methods and procedures shall be in accordance with New Source Performance Standards, 40 CFR 60, Appendix A, Method 10 - Determination of Carbon Monoxide Emissions from Stationary Sources and Method 2, or 2F or 2G or 2H - Determination of stack gas velocity and volumetric flow rate. Use alternate stack test methods only with the prior approval of the Office of Environmental Assessment, Environmental Technology Division, Engineering Services. As required by LAC 33:III.913, provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits. [LAC 33:III.501.C.6]
- 27 Submit notification: Due at least 30 days prior to performance/emissions test to the Office of Environmental Assessment, Environmental Technology Division, Engineering Services, to provide the opportunity to conduct a pretest meeting and observe the emission testing. [LAC 33:III.501.C.6]
- 28 Submit report: Due within 60 days after performance/emissions test. Submit emissions test results to the Office of Environmental Assessment, Environmental Technology Division, Engineering Services. [LAC 33:III.501.C.6]
- 29 Nitrogen oxides recordkeeping by continuous emission monitor (CEM) continuously. (PSD-LA-617). [LAC 33:III.509]
- 30 When nitrogen oxides emission data are not obtained because of continuous monitoring system breakdowns, repairs, calibration checks and zero and span adjustments, obtain emission data by using standby monitoring systems, 40 CFR 60, Appendix A, Method 7, Method 7a, or other approved reference methods to provide emission data for a minimum of 75 percent of the operating hours in each operating day, in at least 22 out of 30 successive operating days. (PSD-LA-617). [LAC 33:III.509]
- 31 Operate NOx continuous monitoring systems and record data during all periods of operation of the affected facility except for continuous monitoring system breakdowns and repairs. Record data during calibration checks, and zero and span adjustments. (PSD-LA-617). [LAC 33:III.509]
- 32 NOx continuous monitoring system shall comply with Performance Specification 2 in 40 CFR 60, Appendix 2. (PSD-LA-617). [LAC 33:III.509]

### **EQT094 AA-10 - Degasifier**

- 33 Emits Class III TAP only. Emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 shall be included in the Annual Emissions Report unless exempted under LAC 33:III.5105.B. (TEDI). [LAC 33:III.5107.A.2]

## SPECIFIC REQUIREMENTS

AI ID: 3732 - PCS Nitrogen Fertilizer LP - Nitrate Group - Geismar Agricultural Nitrogen & Phosphate Plant

Activity Number: PER19960001

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### EQT095 AA-11 - Sour Oil Degasifier 103 J

34 Emits Class III TAP only. Emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 shall be included in the Annual Emissions Report unless exempted under LAC 33:III.5105.B. (TEDI). [LAC 33:III.5107.A.2]

### EQT096 AA-12 - Sour Oil Degasifier 105 J

35 Emits Class III TAP only. Emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 shall be included in the Annual Emissions Report unless exempted under LAC 33:III.5105.B. (TEDI). [LAC 33:III.5107.A.2]

### EQT098 AA-14 - Amine Solutions Tank (114F)

36 Emits Class III TAP only. Emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 shall be included in the Annual Emissions Report unless exempted under LAC 33:III.5105.B. (TEDI). [LAC 33:III.5107.A.2]

### EQT099 AA-6 - Ammonia Plant Cooling Tower

37 Emits Class III TAP only. Emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 shall be included in the Annual Emissions Report unless exempted under LAC 33:III.5105.B. (TEDI). [LAC 33:III.5107.A.2]

### EQT100 AA-7 - Ammonia Plant Startup Heater

38 Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). [LAC 33:III.1101.B]

Which Months: All Year Statistical Basis: None specified

39 Total suspended particulate <= 0.6 lb/MMBTU of heat input (Complies by using sweet natural gas as fuel). [LAC 33:III.1313.C]

Which Months: All Year Statistical Basis: None specified

40 Equipment/operational data recordkeeping by electronic or hard copy continuously. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III. Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]

### EQT101 AA-8 - Sulfuric Acid Storage Tank

41 Emits Class III TAP only. Emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 shall be included in the Annual Emissions Report unless exempted under LAC 33:III.5105.B. (TEDI). [LAC 33:III.5107.A.2]

### EQT102 AA-9 - Organic Sulfur Removal Regeneration

42 Emits Class III TAP only. Emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 shall be included in the Annual Emissions Report unless exempted under LAC 33:III.5105.B. (TEDI). [LAC 33:III.5107.A.2]

### EQT103 AS-1a - 2300VE001A Water Storage Tank

43 Emits Class III TAP only. Emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 shall be included in the Annual Emissions Report unless exempted under LAC 33:III.5105.B. (TEDI). [LAC 33:III.5107.A.2]

## SPECIFIC REQUIREMENTS

AI ID: 3732 - PCS Nitrogen Fertilizer LP - Nitrate Group - Geismar Agricultural Nitrogen & Phosphate Plant  
Activity Number: PER19960001  
Permit Number: 2241-V1  
Air - Title V Regular Permit Initial

### EQT104 AS-1b - 230WE001B Water Storage Tank

44 Emits Class III TAP only. Emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 shall be included in the Annual Emissions Report unless exempted under LAC 33:III.5105.B. (TEDI). [LAC 33:III.5107.A.2]

### EQT105 AS-1c - 230VE001C Water Storage Tank

45 Emits Class III TAP only. Emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 shall be included in the Annual Emissions Report unless exempted under LAC 33:III.5105.B. (TEDI). [LAC 33:III.5107.A.2]

### EQT106 AS-1d - 117A Solutions Area Wastewater Sump

46 Emits Class III TAP only. Emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 shall be included in the Annual Emissions Report unless exempted under LAC 33:III.5105.B. (TEDI). [LAC 33:III.5107.A.2]

### EQT107 AS-1e - V-1011 Wastewater Storage Tank

47 Emits Class III TAP only. Emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 shall be included in the Annual Emissions Report unless exempted under LAC 33:III.5105.B. (TEDI). [LAC 33:III.5107.A.2]

### EQT108 AS-1f - V-103A Wastewater Storage Tank

48 Emits Class III TAP only. Emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 shall be included in the Annual Emissions Report unless exempted under LAC 33:III.5105.B. (TEDI). [LAC 33:III.5107.A.2]

### EQT109 ASL-1 - Ammonia Plant Storage Flare

49 Opacity <= 20 percent, except for a combined total of six hours in any 10 consecutive day period, for burning in connection with pressure valve releases for control over process upsets. [LAC 33:III.1105]  
Which Months: All Year Statistical Basis: None specified

50 Submit notification: Due to the Office of Environmental Compliance, Emergency and Radiological Services Division, Single Point of Contact (SPOC), as soon as possible after the start of burning of pressure valve releases for control over process upsets. Notify in accordance with LAC 33:1.3923. Notification is required only if the upset cannot be controlled in six hours. Although the facility is permitted for one ten hour ammonia release due to tank over pressuring, notification is required if the event lasts longer than 6 hours. [LAC 33:III.1105]

51 Equipment/operational data recordkeeping by electronic or hard copy continuously. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]

52 Flare gas: Heat content > 300 BTU/scf, to ensure destruction of emissions to the flare stack. [LAC 33:III.501.C.6]

53 Flare gas: Heat content monitored by gas analysis annually, to insure the heat content is above 300 BTU/scf. [LAC 33:III.501.C.6]

54 Flare gas: Heat content recordkeeping by electronic or hard copy annually. [LAC 33:III.501.C.6]

55 Presence of a flame monitored by visual inspection/determination daily. [LAC 33:III.501.C.6]  
Which Months: All Year Statistical Basis: None specified

## **SPECIFIC REQUIREMENTS**

AI ID: 3732 - PCS Nitrogen Fertilizer LP - Nitrate Group - Geismar Agricultural Nitrogen & Phosphate Plant  
Activity Number: PER19960001  
Permit Number: 2241-Y1  
Air - Title V Regular Permit Initial

### **EQT109 ASL-1 - Ammonia Plant Storage Flare**

- 56 Presence of a flame recordkeeping by electronic or hard copy daily. [LAC 33:III.501.C.6]
- 57 Develop a corrective action plan for re-lighting the flare. Plan must be kept readily available for immediate implementation in the event the flare needs to be re-lit. [LAC 33:III.501.C.6]
- 58 Emits Class III TAP only. Emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 shall be included in the Annual Emissions Report unless exempted under LAC 33:III.5105.B. (TEDI). [LAC 33:III.5107.A.2]

### **EQT110 ASL-10 - Solutions/Ammonia/AN Railcar Loading**

- 59 Emits Class III TAP only. Emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 shall be included in the Annual Emissions Report unless exempted under LAC 33:III.5105.B. (TEDI). [LAC 33:III.5107.A.2]

### **EQT111 ASL-11 - Solutions Truck Loading**

- 60 Emits Class III TAP only. Emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 shall be included in the Annual Emissions Report unless exempted under LAC 33:III.5105.B. (TEDI). [LAC 33:III.5107.A.2]

### **EQT112 ASL-12 - Truck and Rail Loading Wastewater Sumps**

- 61 Emits Class III TAP only. Emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 shall be included in the Annual Emissions Report unless exempted under LAC 33:III.5105.B. (TEDI). [LAC 33:III.5107.A.2]

### **EQT113 ASL-14 - Anhydrous Ammonia Loading/Unloading**

- 62 Emits Class III TAP only. Emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 shall be included in the Annual Emissions Report unless exempted under LAC 33:III.5105.B. (TEDI). [LAC 33:III.5107.A.2]

### **EQT114 ASL-15 - Ammonia Truck Loading/Unloading**

- 63 Emits Class III TAP only. Emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 shall be included in the Annual Emissions Report unless exempted under LAC 33:III.5105.B. (TEDI). [LAC 33:III.5107.A.2]

### **EQT115 ASL-16 - Ammonia Railcar Loading/Unloading**

- 64 Emits Class III TAP only. Emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 shall be included in the Annual Emissions Report unless exempted under LAC 33:III.5105.B. (TEDI). [LAC 33:III.5107.A.2]

### **EQT116 ASL-2 - Uran Storage Tank No. 1**

- 65 Emits Class III TAP only. Emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 shall be included in the Annual Emissions Report unless exempted under LAC 33:III.5105.B. (TEDI). [LAC 33:III.5107.A.2]

### **EQT117 ASL-3 - Uran Storage Tank No. 2**

## SPECIFIC REQUIREMENTS

AI ID: 3732 - PCS Nitrogen Fertilizer LP - Nitrate Group - Geismar Agricultural Nitrogen & Phosphate Plant

Activity Number: PER19960001

Permit Number: 2241-V1

Air - Title V Regular Permit Initial

### EQT117 ASL-3 - Uran Storage Tank No. 2

66 Emits Class III TAP only. Emissions of all toxic air pollutants listed in LAC 33.III.5112, Table 51.1 or 51.3 shall be included in the Annual Emissions Report unless exempted under LAC 33.III.5105.B. (TEDI). [LAC 33.III.5107.A.2]

### EQT118 ASL-4 - Uran Storage Tank No. 3

67 Emits Class III TAP only. Emissions of all toxic air pollutants listed in LAC 33.III.5112, Table 51.1 or 51.3 shall be included in the Annual Emissions Report unless exempted under LAC 33.III.5105.B. (TEDI). [LAC 33.III.5107.A.2]

### EQT119 ASL-5 - Uran Storage Tank No. 4

68 Emits Class III TAP only. Emissions of all toxic air pollutants listed in LAC 33.III.5112, Table 51.1 or 51.3 shall be included in the Annual Emissions Report unless exempted under LAC 33.III.5105.B. (TEDI). [LAC 33.III.5107.A.2]

### EQT120 ASL-6 - Uran Storage Tank No. 5

69 Emits Class III TAP only. Emissions of all toxic air pollutants listed in LAC 33.III.5112, Table 51.1 or 51.3 shall be included in the Annual Emissions Report unless exempted under LAC 33.III.5105.B. (TEDI). [LAC 33.III.5107.A.2]

### EQT121 ASL-7 - Uran Storage Tank No. 6

70 Emits Class III TAP only. Emissions of all toxic air pollutants listed in LAC 33.III.5112, Table 51.1 or 51.3 shall be included in the Annual Emissions Report unless exempted under LAC 33.III.5105.B. (TEDI). [LAC 33.III.5107.A.2]

### EQT122 ASL-8 - Uran Storage Tank No. 7

71 Emits Class III TAP only. Emissions of all toxic air pollutants listed in LAC 33.III.5112, Table 51.1 or 51.3 shall be included in the Annual Emissions Report unless exempted under LAC 33.III.5105.B. (TEDI). [LAC 33.III.5107.A.2]

### EQT123 ASL-9 - Dock Loading/Unloading

72 Emits Class III TAP only. Emissions of all toxic air pollutants listed in LAC 33.III.5112, Table 51.1 or 51.3 shall be included in the Annual Emissions Report unless exempted under LAC 33.III.5105.B. (TEDI). [LAC 33.III.5107.A.2]

### EQT124 AU-3 - Urea Storage Tank FB-310

73 Emits Class III TAP only. Emissions of all toxic air pollutants listed in LAC 33.III.5112, Table 51.1 or 51.3 shall be included in the Annual Emissions Report unless exempted under LAC 33.III.5105.B. (TEDI). [LAC 33.III.5107.A.2]

### EQT125 AU-4 - U-60 Scrubber

74 Emits Class III TAP only. Emissions of all toxic air pollutants listed in LAC 33.III.5112, Table 51.1 or 51.3 shall be included in the Annual Emissions Report unless exempted under LAC 33.III.5105.B. (TEDI). [LAC 33.III.5107.A.2]

### EQT126 AU-5 - Oil Separator Tank

## SPECIFIC REQUIREMENTS

AI ID: 3732 - PCS Nitrogen Fertilizer LP - Nitrate Group - Geismar Agricultural Nitrogen & Phosphate Plant

Activity Number: PER19960001

Permit Number: 2241-V1

Air - Title V Regular Permit Initial

### EQT126 AU-5 - Oil Separator Tank

75 Emits Class III TAP only. Emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 shall be included in the Annual Emissions Report unless exempted under LAC 33:III.5105.B. (TEDI). [LAC 33:III.5107.A.2]

### EQT127 AU-6 - CO2 Knockout Drum

76 Emits Class III TAP only. Emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 shall be included in the Annual Emissions Report unless exempted under LAC 33:III.5105.B. (TEDI). [LAC 33:III.5107.A.2]

### EQT128 AU-7 - Urea Hotwell

77 Emits Class III TAP only. Emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 shall be included in the Annual Emissions Report unless exempted under LAC 33:III.5105.B. (TEDI). [LAC 33:III.5107.A.2]

### EQT129 AU-8 - MEA Storage Tank V329A

78 Emits Class III TAP only. Emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 shall be included in the Annual Emissions Report unless exempted under LAC 33:III.5105.B. (TEDI). [LAC 33:III.5107.A.2]

### EQT130 AU-9 - MEA Storage Tank V329B

79 Emits Class III TAP only. Emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 shall be included in the Annual Emissions Report unless exempted under LAC 33:III.5105.B. (TEDI). [LAC 33:III.5107.A.2]

### FUG013 AA-3 - Ammonia Plant Fugitives

80 Emits Class III TAP only. A fugitive leak detection program was approved to meet the Ambient Air Standard for Ammonia. Emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 shall be included in the Annual Emissions Report unless exempted under LAC 33:III.5105.B. (TEDI). [LAC 33:III.5107.A.2]

81 Ammonia monitored by visual, audible, and/or olfactory once every shift during operation. Components that are inaccessible, difficult to monitor, or unsafe to monitor shall be monitored on an annual basis or when conditions allow monitoring. [LAC 33:III.5109.B.1]

Which Months: All Year Statistical Basis: Instantaneous determination

82 Detected leak sources shall be evaluated to determine appropriate response action. All identified leaks not requiring immediate action shall be tagged in the field and a work order written for repair. [LAC 33:III.5109.B.1]

83 Detected leaks of Ammonia recordkeeping by electronic or hard copy once every shift during operation. Any leaking components shall be identified and recorded, including the date of repair, as well as the date of remonitoring to verify the repair. Leaking components that are tagged for future repair shall also be recorded as such. Record and keep on site for at least five years. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.5109.B.1]

### FUG014 AS-3 - Solutions Area Fugitives

84 Emits Class III TAP only. Emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 shall be included in the Annual Emissions Report unless exempted under LAC 33:III.5105.B. (TEDI). [LAC 33:III.5107.A.2]

### FUG015 ASL-13 - Dock Facilities Fugitives

## **SPECIFIC REQUIREMENTS**

AI ID: 3732 - PCS Nitrogen Fertilizer LP - Nitrate Group - Geismar Agricultural Nitrogen & Phosphate Plant  
Activity Number: PER19960001  
Permit Number: 2241-V1  
Air - Title V Regular Permit Initial

### **FUG015 ASL-13 - Dock Facilities Fugitives**

85 Emits Class III TAP only. Emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 shall be included in the Annual Emissions Report unless exempted under LAC 33:III.5105.B. (TEDI). [LAC 33:III.5107.A.2]

### **FUG016 AU-2 - Urea Plant Fugitives**

86 Emits Class III TAP only. A fugitive leak detection program was approved to meet the Ambient Air Standard for Ammonia. Emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 shall be included in the Annual Emissions Report unless exempted under LAC 33:III.5105.B. (TEDI). [LAC 33:III.5107.A.2]  
87 Potential sources of Ammonia monitored by visual, audible, and/or olfactory once every shift during operation. Components that are inaccessible, difficult to monitor, or unsafe to monitor shall be monitored on an annual basis or when conditions allow monitoring. [LAC 33:III.5109.B.1]

Which Months: All Year Statistical Basis: Instantaneous determination

88 Detected leak sources shall be evaluated to determine appropriate response action. All identified leaks not requiring immediate action shall be tagged in the field and a work order written for repair. [LAC 33:III.5109.B.1]

89 Detected leaks of Ammonia recordkeeping by electronic or hard copy once every shift during operation. Any leaking components shall be identified and recorded, including the date of repair, as well as the date of remonitoring to verify the repair. Leaking components that are tagged for future repair shall also be recorded as such. Record and keep on site for at least five years. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.5109.B.1]

### **GRP031 Ammonia and Urea Process Area**

90 Emissions of smoke which pass onto or across a public road and create a traffic hazard by impairment of visibility as defined in LAC 33:III.111 or intensify an existing traffic hazard condition are prohibited. [LAC 33:III.1103]

91 Outdoor burning of waste material or other combustible material is prohibited. [LAC 33:III.1109.B]

92 Emissions of particulate matter which pass onto or across a public road and create a traffic hazard by impairment of visibility or intensify an existing traffic hazard condition are prohibited. [LAC 33:III.1303.B]

93 Maintain best practical housekeeping and maintenance practices at the highest possible standards to reduce the quantity of organic compounds emissions. Good housekeeping shall include, but not be limited to, the practices listed in LAC 33:III.2113.A.1-5. [LAC 33:III.2113.A]

94 Failure to pay the prescribed application fee or annual fee as provided herein, within 90 days after the due date, will constitute a violation of these regulations and shall subject the person to applicable enforcement actions under the Louisiana Environmental Quality Act including, but not limited to, revocation or suspension of the applicable permit, license, registration, or variance. [LAC 33:III.219]

95 Do not fire an affected point source with Number 6 Fuel Oil or perform testing of emergency and training combustion units without prior approval of DEQ on a day that is designated as an Ozone Action Day by DEQ. [LAC 33:III.2201.D.9]

96 Perform NOx emissions testing for all point sources that are subject to the emission limitations of LAC 33:III.2201.D or used in one of the alternative plans of LAC 33:III.2201.E, as specified in LAC 33:III.2201.G.2 through G.7. Test results must demonstrate that actual NOx emissions are in compliance with the appropriate limits of LAC 33:III Chapter 22. Also measure CO, SO<sub>2</sub>, PM10, and VOC if modifications could cause an increase in emissions of any of these compounds. [LAC 33:III.2201.G.2]

97 Modify and/or install and bring into normal operation NOx control equipment and/or NOx monitoring systems in accordance with LAC 33:III.Chapter 22 as expeditiously as possible, but by no later than May 1, 2005, except as provided in LAC 33:III.2202. [LAC 33:III.2201.J.1]

98 Complete all initial compliance testing, specified by LAC 33:III.2201.G, for equipment modified with NOx reduction controls or a NOx monitoring system to meet the provisions of LAC 33:III.Chapter 22 within 60 days of achieving normal production rate or after the end of the shake down period, but in no event later than 180 days after initial start-up, except as provided in LAC 33:III.2202. [LAC 33:III.2201.J.2]

99 Complete required testing to demonstrate the performance of existing, unmodified equipment in a timely manner, but by no later than November 1, 2005, except as provided in LAC 33:III.2202. [LAC 33:III.2201.J.2]

## SPECIFIC REQUIREMENTS

AI ID: 3732 - PCS Nitrogen Fertilizer LP - Nitrate Group - Geismar Agricultural Nitrogen & Phosphate Plant

Activity Number: PER19960001

Permit Number: 2241-V1

Air - Title V Regular Permit Initial

### GRP031 Ammonia and Urea Process Area

- 100 Discharges of odorous substances at or beyond property lines which cause a perceived odor intensity of six or greater on the specified eight point butanol scale as determined by Method 41 of LAC 33:III.2901.G are prohibited. [LAC 33:III.2901.D]
- 101 If requested to monitor for odor intensity, take and transport samples in a manner which minimizes alteration of the samples either by contamination or loss of material. Evaluate all samples as soon after collection as possible in accordance with the procedures set forth in LAC 33:III.2901.G. [LAC 33:III.2901.F]
- 102 Particulate matter (10 microns or less)  $\leq$  142.69 tons/yr. [LAC 33:III.501.C.6]
- Which Months: All Year Statistical Basis: Annual maximum
- 103 Nitrogen oxides  $\leq$  1806.24 tons/yr. (PSD-LA-617). [LAC 33:III.501.C.6]
- Which Months: All Year Statistical Basis: Annual maximum
- 104 Carbon monoxide  $\leq$  393.42 tons/yr. This emission limit is based upon 100 % of the stack stream being vented to the atmosphere. The alternate operating scenario annual emission limit under GRP 33 represents the maximum percent of the RLP 008 stack stream being routed to the Urea production area, which represents 47.96% release to the atmosphere. The carbon monoxide emission limit for the Ammonia group operation can vary between this value and 376.98 tpy. [LAC 33:III.501.C.6]
- Which Months: All Year Statistical Basis: Annual maximum
- 105 VOC, Total  $\leq$  100.55 tons/yr. This emission limit is based upon 100 % of the stack stream being vented to the atmosphere. The alternate operating scenario annual emission limit under GRP 33 represents the maximum percent of the RLP 008 stack stream being routed to the Urea production area, which represents 47.96% release to the atmosphere. The VOC emission limit for the Ammonia group operation can vary between this value and 71.97 tpy. [LAC 33:III.501.C.6]
- Which Months: All Year Statistical Basis: Annual maximum
- 106 Sulfur dioxide  $\leq$  2.52 tons/yr. [LAC 33:III.501.C.6]
- Which Months: All Year Statistical Basis: Annual maximum
- 107 Methanol  $\leq$  21.23 tons/yr. This emission limit is based upon 100 % of the stack stream being vented to the atmosphere. The alternate operating scenario annual emission limit under GRP 33 represents the maximum percent of the RLP 008 stack stream being routed to the Urea production area, which represents 47.96% release to the atmosphere. The methanol emission limit for the Ammonia group operation can vary between this value and 14.33 tpy. [LAC 33:III.501.C.6]
- Which Months: All Year Statistical Basis: Annual maximum
- 108 Ammonia  $\leq$  425.22 tons/yr. This emission limit is based upon 100 % of the stack stream being vented to the atmosphere. The alternate operating scenario annual emission limit under GRP 33 represents the maximum percent of the RLP 008 stack stream being routed to the Urea production area, which represents 47.96% release to the atmosphere. The ammonia emission limit for the Ammonia group operation can vary between this value and 425.11 tpy. [LAC 33:III.501.C.6]
- Which Months: All Year Statistical Basis: Annual maximum
- 109 Chlorine  $\leq$  2.26 tons/yr. [LAC 33:III.501.C.6]
- Which Months: All Year Statistical Basis: Annual maximum
- 110 Hydrogen sulfide  $\leq$  0.03 tons/yr. [LAC 33:III.501.C.6]
- Which Months: All Year Statistical Basis: Annual maximum
- 111 Sulfuric acid  $\leq$  0.10 tons/yr. [LAC 33:III.501.C.6]
- Which Months: All Year Statistical Basis: Annual maximum
- 112 Nitric acid  $\leq$  3.12 tons/yr. [LAC 33:III.501.C.6]
- Which Months: All Year Statistical Basis: Annual maximum
- 113 Comply with the requirements of PSD-LA-617. This permit includes provisions of the Prevention of Significant Deterioration (PSD) review from Permit PSD-LA-617. [LAC 33:III.509]
- 114 Do not construct or modify any stationary source subject to any standard set forth in LAC 33:III. Chapter 51, Subchapter A without first obtaining written authorization from DEQ in accordance with LAC 33:III. Chapter 51, Subchapter A, after the effective date of the standard. [LAC 33:III.5105.A.1]
- 115 Do not cause a violation of any ambient air standard listed in LAC 33:III. Table 51.2, unless operating in accordance with LAC 33:III.5105.A.2]

## **SPECIFIC REQUIREMENTS**

AI ID: 3732 - PCS Nitrogen Fertilizer LP - Nitrate Group - Geismar Agricultural Nitrogen & Phosphate Plant

Activity Number: PER19960001

Permit Number: 2241-V1

Air - Title V Regular Permit Initial

### **GRP031 Ammonia and Urea Process Area**

- 116 Do not build, erect, install, or use any article, machine, equipment, process, or method, the use of which conceals an emission that would otherwise constitute a violation of an applicable standard. [LAC 33:III.5105.A.3]
- 117 Do not fail to keep records, notify, report or revise reports as required under LAC 33:III.Chapter 51.Subchapter A. [LAC 33:III.5105.A.4]
- 118 Submit Annual Emissions Report (TEDI): Due annually, by the 1st of July, to the Office of Environmental Assessment, Air Quality Assessment Division, in a format specified by DEQ. Identify the quantity of emissions in the previous calendar year for any toxic air pollutant listed in Table 51.1 or Table 51.3. [LAC 33:III.5107.A.2]
- 119 Include a certification statement with initial and subsequent annual emission reports and revisions to any emission report to attest that the information contained in the emission report is true, accurate, and complete, and signed by a responsible official, as defined in LAC 33:III.502. Include the full name of the responsible official, title, signature, date of signature and phone number of the responsible official. The certification statement shall read: "I certify, under penalty of perjury, that the emissions data provided is accurate to the best of my knowledge, information, and belief, and I understand that submitting false or misleading information will expose me to prosecution under state regulations" [LAC 33:III.5107.A.3]
- 120 Submit notification: Due to the Department of Public Safety 24-hour Louisiana Emergency Hazardous Materials Hotline at (225) 925-6595 immediately, but no later than 1 hour, after any discharge of a toxic air pollutant into the atmosphere which results or threatens to result in an emergency condition (a condition which could reasonably be expected to endanger the health and safety of the public, cause significant adverse impact to the land, water or air environment, or cause severe damage to property). [LAC 33:III.5107.B.1]
- 121 Submit notification: Due to the Office of Environmental Compliance, Emergency and Radiological Services Division, Single Point of Contact (SPOC), except as provided in LAC 33:III.5107.B.6, no later than 24 hours after the beginning of any unauthorized discharge into the atmosphere of a toxic air pollutant as a result of bypassing an emission control device, when the emission control bypass was not the result of an upset, and the quantity of the unauthorized bypass is greater than or equal to the lower of the Minimum Emission Rate (MER) in LAC 33:III.5112, Table 51.1, or a reportable quantity (RQ) in LAC 33:I.3931, or the quantity of the unauthorized bypass is greater than one pound and there is no MER or RQ for the substance in question. Submit notification in the manner provided in LAC 33:I.3923. [LAC 33:III.5107.B.2]
- 122 Submit notification: Due to the Office of Environmental Compliance, Emergency and Radiological Services, SPOC, immediately, but in no case later than 24 hours after any unauthorized discharge of a toxic air pollutant into the atmosphere that does not cause an emergency condition, the rate or quantity of which is in excess of that allowed by permit, compliance schedule, or variance, or for upset events that exceed the reportable quantity in LAC 33:I.3931, except as provided in LAC 33:III.5107.B.6. Submit notification in the manner provided in LAC 33:I.3923. [LAC 33:III.5107.B.3]
- 123 Submit written report: Due within seven calendar days of learning of any such discharge or equipment bypass as referred to in LAC 33:III.5107.B.1 through 3. Submit report to the Office of Environmental Compliance by certified mail. Include the information specified in LAC 33:III.5107.B.4.a.i through viii. [LAC 33:III.5107.B.4]
- 124 Report all discharges to the atmosphere of a toxic air pollutant from a safety relief device, a line or vessel rupture, a sudden equipment failure, or a bypass of an emission control device, regardless of quantity, in the annual emissions report and where otherwise specified. Include the identity of the source, the date and time of the discharge, and the approximate total loss during the discharge. [LAC 33:III.5107.B.5]
- 125 Submit to DEQ a certification of compliance with all MACT requirements, in accordance with LAC 33:III.5109.D. Include the elements listed in LAC 33:III.5109.E. [LAC 33:III.5109.A.2]
- 126 Submit to DEQ a compliance plan for achieving compliance with the ambient air standard(s), in accordance with LAC 33:III.5109.D. Include the elements listed under LAC 33:III.5109.E. The compliance plan was approved on October 31, 1994. [LAC 33:III.5109.B.1]
- 127 Submit to DEQ a certification of compliance with all ambient air standards, in accordance with LAC 33:III.5109.D. Include the elements listed under LAC 33:III.5109.E. [LAC 33:III.5109.B.2]
- 128 Achieve compliance with ambient air standards unless it can be demonstrated to the satisfaction of DEQ that compliance with an ambient air standard would be economically infeasible; that emissions could not reasonably be expected to pose a threat to public health or the environment; and that emissions would be controlled to a level that is Maximum Achievable Control Technology. [LAC 33:III.5109.B.3]

## **SPECIFIC REQUIREMENTS**

AI ID: 3732 - PCS Nitrogen Fertilizer LP - Nitrate Group - Geismar Agricultural Nitrogen & Phosphate Plant

Activity Number: PER19960001

Permit Number: 2241-V1

Air - Title V Regular Permit Initial

### **GRP031 Ammonia and Urea Process Area**

- 129 Develop a standard operating procedure (SOP) within 120 days after achieving or demonstrating compliance with the standards specified in LAC 33:III, Chapter 51. Detail in the SOP all operating procedures or parameters established to ensure that compliance with the applicable standards is maintained and address operating procedures for any monitoring system in place, specifying procedures to ensure compliance with LAC 33:II,5113.C.5. Make a written copy of the SOP available on site or at an alternate approved location for inspection by DEQ. Provide a copy of the SOP within 30 days upon request by the department. [LAC 33:III,51.09.C]
- 130 Obtain a Louisiana Air Permit in accordance with LAC 33:II,5111.B and C and in accordance with LAC 33:II,1701, before commencement of the construction of any new source. [LAC 33:III,5111.A.]
- 131 Obtain a permit modification in accordance with LAC 33:III,5111.B and C before commencement of any modification not specified in a compliance plan submitted under LAC 33:III,5109.D, if the modification will result in an increase in emissions of any toxic air pollutant or will create a new point source. [LAC 33:III,5111.A.2.a]
- 132 Do not commence construction or modification of any major source without first obtaining written authorization from DEQ, as specified. [LAC 33:III,5111.A]
- 133 Ensure that all testing done to determine the emission of toxic air pollutants, upon request by the department, is conducted by qualified personnel. [LAC 33:III,5113.B.1]
- 134 Conduct emission tests as set forth in accordance with Test Methods of 40 CFR, parts 60, 61, and 63 or in accordance with alternative test methods approved by DEQ. [LAC 33:III,5113.B.2]
- 135 Provide necessary sampling and testing facilities, exclusive of instruments and sensing devices, as needed to properly determine the emission of toxic air pollutants, upon request of the department. [LAC 33:III,5113.B.3]
- 136 Provide emission testing facilities as specified in LAC 33:III,5113.B.4 through e. [LAC 33:III,5113.B.4]
- 137 Analyze samples and determine emissions within 30 days after each emission test has been completed. [LAC 33:III,5113.B.5]
- 138 Submit certified letter: Due to the Office of Environmental Assessment, Air Quality Assessment Division, before the close of business on the 45th day following the completion of the emission test. Report the determinations of the emission test. [LAC 33:III,5113.B.5]
- 139 Equipment/operational data recordkeeping by electronic or hard copy upon each occurrence of emissions testing. Retain records of emission test results and other data needed to determine emissions. Retained records at the source, or at an alternate location approved by DEQ for a minimum of two years, and make available upon request for inspection by DEQ. [LAC 33:III,5113.B.6]
- 140 Submit notification: Due to the Office of Environmental Assessment, Air Quality Assessment Division, at least 30 days before the emission test. Submit notification of emission test to allow DEQ the opportunity to have an observer present during the test. [LAC 33:III,5113.B.7]
- 141 Maintain and operate each monitoring system in a manner consistent with good air pollution control practices for minimizing emissions. Repair or adjust any breakdown or malfunction of the monitoring system as soon as practicable after its occurrence. [LAC 33:III,5113.C.1]
- 142 Conduct performance evaluation of the monitoring system when required at any other time requested by DEQ. [LAC 33:III,5113.C.2]
- 143 Submit performance evaluation report: Due to the Office of Environmental Assessment, Air Quality Assessment Division, within 60 days of the monitoring system performance evaluation. [LAC 33:III,5113.C.2]
- 144 Submit notification in writing: Due to the Office of Environmental Assessment, Environmental Technology Division at least 30 days before a performance evaluation of the monitoring system is to begin. [LAC 33:III,5113.C.2]
- 145 Install a monitoring system on each effluent or on the combined effluent, when monitoring is required and the effluents from a single source, or from two or more sources subject to the same emission standards, are combined before being released to the atmosphere. If two or more sources are not subject to the same emission standards, install a separate monitoring system on each effluent, unless otherwise specified. If the applicable standard is a mass emission standard and the effluent from one source is released to the atmosphere through more than one point, install a monitoring system at each emission point unless DEQ approves the installation of fewer systems. [LAC 33:III,5113.C.3]
- 146 Evaluate the performance of continuous monitoring systems, upon request by DEQ, in accordance with the requirements and procedures contained in the applicable performance specification of 40 CFR Part 60, appendix B. [LAC 33:III,5113.C.5.a]
- 147 Submit report: Due to DEQ within 60 days of the performance evaluation of the CMS, if requested. Furnish DEQ with two or more copies of a written report of the test results within 60 days. [LAC 33:III,5113.C.5.a]

## **SPECIFIC REQUIREMENTS**

AI ID: 3732 - PCS Nitrogen Fertilizer LP - Nitrate Group - Geismar Agricultural Nitrogen & Phosphate Plant

Activity Number: PER19960001

Permit Number: 2241-V1

Air - Title V Regular Permit Initial

### **GRP031 Ammonia and Urea Process Area**

- 148 Install all continuous monitoring systems or monitoring devices to make representative measurements under variable process or operating parameters, if required to install a CMS. [LAC 33:III.5113.C.5.d]
- 149 Collect and reduce all data as specified in LAC 33:III.5113.C.5.e.i and ii, if required to install a CMS. [LAC 33:III.5113.C.5.e]
- 150 Submit plan: Due to the Office of Environmental Assessment, Air Quality Assessment Division, within 90 days after DEQ requests either the initial plan or an updated plan, if required by DEQ to install a continuous monitoring system. Submit for approval a plan describing the affected sources and the methods for ensuring compliance with the continuous monitoring system. [LAC 33:III.5113.C.5]
- 151 Maintain records of monitoring data, monitoring system calibration checks, and the occurrence and duration of any period during which the monitoring system is malfunctioning or inoperative. Maintain these records at the source, or at an alternative location approved by DEQ, for a minimum of three years and make available, upon request, for inspection by DEQ. [LAC 33:III.5113.C.7]
- 152 An individual or company contracted to perform a demolition or renovation activity which disturbs RACM must be recognized by the Licensing Board for Contractors to perform asbestos abatement, and shall meet the requirements of LAC 33:III.51151.F.2 and F.3 for each demolition or renovation activity. [LAC 33:III.51151.F.1]
- 153 Activate the preplanned abatement strategy listed in LAC 33:III.5611.Table 5 when the administrative authority declares an Air Pollution Alert. [LAC 33:III.5609.A.1.b]
- 154 Activate the preplanned abatement strategy listed in LAC 33:III.5611.Table 6 when the administrative authority declares an Air Pollution Warning. [LAC 33:III.5609.A.2.b]
- 155 Activate the preplanned abatement strategy listed in LAC 33:III.5611.Table 7 when the administrative authority declares an Air Pollution Emergency. [LAC 33:III.5609.A.3.b]
- 156 Prepare standby plans for the reduction of emissions during periods of Air Pollution Alert, Air Pollution Warning and Air Pollution Emergency. Design standby plans to reduce or eliminate emissions in accordance with the objectives as set forth in LAC 33:III.5611.Tables 5, 6, and 7. [LAC 33:III.5609.A]
- 157 Comply with the provisions in 40 CFR 68, except as specified in LAC 33:III.5901. [LAC 33:III.5901.A]
- 158 Identify hazards that may result from accidental releases of the substances listed in 40 CFR 68.130, Table 59.0 of LAC 33:III.5907, or Table 59.1 of LAC 33:III.5913 using appropriate hazard assessment techniques, design and maintain a safe facility, and minimize the off-site consequences of accidental releases of such substances that do occur. [LAC 33:III.5907]
- 159 Submit registration: Due January 31, 1998, or within 60 days after the source becomes subject to LAC 33:III Chapter 59, whichever is later. Include the information listed in LAC 33:III.5911.B, and submit to the Department of Environmental Quality, Office of Environmental Compliance, Emergency and Radiological Services Division. [LAC 33:III.5911.A]
- 160 Submit amended registration: Due to the Department of Environmental Quality, Office of Environmental Compliance, Emergency and Radiological Services Division, within 60 days after the information in the submitted registration is no longer accurate. [LAC 33:III.5911.C]
- 161 Submit Emission Inventory (EI)/Annual Emissions Statement: Due annually, by the 31st of March for the period January 1 to December 31 of the previous year unless otherwise directed. Submit emission inventory data in the format specified by the Office of Environmental Assessment, Air Quality Assessment Division. Include all data applicable to the emissions source(s), as specified in LAC 33:III.919.A-D. [LAC 33:III.919.D]
- 162 Provide DEQ with written notice of intention to demolish or renovate prior to performing activities to which 40 CFR 61 Subpart M applies. Delivery of the notice by U.S. Postal Service, commercial delivery service, or hand delivery is acceptable. [40 CFR 61.145(b)(1)]
- 163 Do not install or reinstall on a facility component any insulating materials that contain commercial asbestos if the materials are either molded and friable or wet-applied and friable after drying. Subpart M. [40 CFR 61.148]
- 164 The Urea Plant is potentially subject to 40 CFR 63 - Miscellaneous Organic Chemical Manufacturing (Subpart FFFF). The affected source shall comply with all applicable requirements / provisions by the appropriate compliance date(s) as determined upon promulgation of the final amended rule. [40 CFR 63.2435]
- 165 Upon final promulgation, all affected facilities shall comply with all applicable provisions in 40 CFR 63 Subpart A as delineated in Table 12 of 40 CFR 63 Subpart FFFF. [40 CFR 63]
- 166 Submit Title V permit application for renewal: Due 180 calendar days before permit expiration date. [40 CFR 70.5(a)(1)(iii)]

## **SPECIFIC REQUIREMENTS**

AI ID: 3732 - PCS Nitrogen Fertilizer LP - Nitrate Group - Geismar Agricultural Nitrogen & Phosphate Plant

Activity Number: PER19960001

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### **GRP031 Ammonia and Urea Process Area**

- 167 Submit Title V monitoring results report: Due semiannually, by March 31st and September 30th for the preceding periods encompassing July through December and January through June, respectively. Submit reports to the Office of Environmental Compliance, Surveillance Division. Certify reports by a responsible company official. Clearly identify all instances of deviations from permitted monitoring requirements. For previously reported deviations, in lieu of attaching the individual deviation reports, clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. [40 CFR 70.6(a)(3)(iii)(A)]
- 168 Submit Title V excess emissions report: Due quarterly, by June 30, September 30, December 31, March 31. Submit reports of all permit deviations to the Office of Environmental Compliance, Surveillance Division. Certify all reports by a responsible official in accordance with 40 CFR 70.5(d). The reports submitted on March 31 and September 30 may be consolidated with the semi-annual reports required by 40 CFR 70.6(a)(3)(iii)(A) as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report. [40 CFR 70.6(a)(3)(iii)(B)]
- 169 Submit Title V compliance certification: Due annually, by the 31st of March. Submit to the Office of Environmental Compliance, Surveillance Division. [40 CFR 70.6(c)(5)(iv)]

### **RLP008 AA-2 - Ammonia Plant Carbon Dioxide Vent**

- 170 Conduct a performance/emissions test on the Ammonia Carbon Dioxide Vent (RLP 8): Due within 180 days after initial startup (or restart-up after modification or re-commissioning). The stack test's purpose is to demonstrate compliance with the emission limits of this permit. Test methods and procedures shall be in accordance with New Source Performance Standards, 40 CFR 60, Appendix A. Method 10 - Determination of Carbon Monoxide Emissions from Stationary Sources. The facility shall also test for Ammonia and Methanol emission rates. Use alternate stack test methods only with the prior approval of the Office of Environmental Assessment, Environmental Technology Division, Engineering Services. As required by LAC 33:III.913, provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits. [LAC 33:III.501.C.6]
- 171 Submit notification: Due at least 30 days prior to performance/emissions test to the Office of Environmental Assessment, Environmental Technology Division, Engineering Services, to provide the opportunity to conduct a pretest meeting and observe the emission testing. [LAC 33:III.501.C.6]
- 172 Submit report: Due within 60 days after performance/emissions test. Submit emissions test results to the Office of Environmental Assessment, Environmental Technology Division, Engineering Services. [LAC 33:III.501.C.6]
- 173 Emits Class III TAP only. Emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 shall be included in the Annual Emissions Report unless exempted under LAC 33:III.5105.B. (TEDI). [LAC 33:III.5107.A.2]

### **RLP009 AU-1 - Urea Plant Desorber Carbon Dioxide Vent**

- 174 Conduct a performance/emissions test on the AU-1 - Urea Plant Desorber Carbon Dioxide Vent (RLP 9): Due within 60 days after initial startup (or restart-up after modification or re-commissioning). The stack test's purpose is to demonstrate compliance with the ammonia emission limits of this permit. Test methods and procedures shall be in accordance with stack test methods approved by the Office of Environmental Assessment, Environmental Technology Division, Engineering Services. As required by LAC 33:III.913, provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits. [LAC 33:III.501.C.6]
- 175 Submit notification: Due at least 30 days prior to performance/emissions test to the Office of Environmental Assessment, Environmental Technology Division, Engineering Services, to provide the opportunity to conduct a pretest meeting and observe the emission testing. [LAC 33:III.501.C.6]
- 176 Submit report: Due within 60 days after performance/emissions test. Submit emissions test results to the Office of Environmental Assessment, Environmental Technology Division, Engineering Services. [LAC 33:III.501.C.6]
- 177 Emits Class III TAP only. Emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 shall be included in the Annual Emissions Report unless exempted under LAC 33:III.5105.B. (TEDI). [LAC 33:III.5107.A.2]

**INVENTORIES**

**AI ID: 3732 - PCS Nitrogen Fertilizer LP - Nitrate Group - Geismar Agricultural Nitrogen & Phosphate Plant**  
**Activity Number: PER19960001**  
**Permit Number: 2241-V1**  
**Air - Title V Regular Permit Initial**

Subject Item Inventory:

ID	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
EQT002	AA-4 Ammonia Plant Process Flare			3.43 MM BTU/hr	Natural Gas for pilot and fuel assist	8760 hr/yr (All Year)
EQT093	AA-1 - Ammonia Plant Primary Reformer and Auxiliary Boiler	602250 tons/yr	1650 tons/day		Ammonia	8760 hr/yr (All Year)
EQT094	AA-10 - Degasser					8760 hr/yr (All Year)
EQT095	AA-11 - Sour Oil Degasser 103 J					8760 hr/yr (All Year)
EQT096	AA-12 - Sour Oil Degasser 105 J					8760 hr/yr (All Year)
EQT097	AA-13 - Ammonia Plant Slop Oil Tank	22313 gallons	36500 gallons/yr	100 gallons/day	Regal R & O 32 Oil	8760 hr/yr (All Year)
EQT098	AA-14 - Amine Solutions Tank (114F)	37815 gallons	65000 gallons/yr	65000 gallons/yr	MDEA Solution	8760 hr/yr (All Year)
EQT099	AA-6 - Ammonia Plant Cooling Tower			47000 gallons/min	Circulating Water	8760 hr/yr (All Year)
EQT100	AA-7 - Ammonia Plant Startup Heater			40 MM BTU/hr	Natural Gas	180 hr/yr (All Year)
EQT101	AA-8 - Sulfuric Acid Storage Tank	10000 gallons	166500 gallons/yr	166500 gallons/yr	Sulfuric Acid	8760 hr/yr (All Year)
EQT102	AA-9 - Organic Sulfur Removal Regeneration				Operates for 480 hours and Regenerates for 20 hours per year	480 hr/yr (All Year)
EQT103	AS-1a - 230VE001A Water Storage Tank	13529 gallons		Water		8760 hr/yr (All Year)
EQT104	AS-1b - 230VE001B Water Storage Tank	13529 gallons		Water		8760 hr/yr (All Year)
EQT105	AS-1c - 230VE001C Water Storage Tank	13529 gallons		Water		8760 hr/yr (All Year)
EQT106	AS-1d - 117A Solutions Area Wastewater Sump	888 gallons		Wastewater		8760 hr/yr (All Year)
EQT107	AS-1e - V-101 Wastewater Storage Tank	10000 gallons		Wastewater		8760 hr/yr (All Year)
EQT108	AS-1f - V-103A Wastewater Storage Tank	12000 gallons		Wastewater		8760 hr/yr (All Year)
EQT109	ASL-1 - Ammonia Plant Storage Flare			3.43 MM BTU/hr	Natural Gas for pilot and fuel assist	(None Specified)
EQT110	ASL-10 - Solutions/Ammonia/AN Railcar Loading		6032 Tank cars/year	U28 at 1156, U30 at 488 and U32 at 436, U60 at 2850 and U32 at 2850 trucks		5960 hr/yr (All Year)
EQT111	ASL-11 - Solutions Truck Loading		28.04 MM gallons/yr	at 4368 railcars		4155 hr/yr (All Year)
EQT112	ASL-12 - Truck and Rail Loading Wastewater Sumps					8760 hr/yr (All Year)
EQT113	ASL-14 - Anhydrous Ammonia Loading/Unloading			1000 Tank cars/year	Anhydrous Ammonia	4000 hr/yr (All Year)
EQT114	ASL-15 - Ammonia Truck Loading/Unloading					910 hr/yr (All Year)
EQT115	ASL-16 - Ammonia Railcar Loading/Unloading			3000 Tank cars/year		6000 hr/yr (All Year)
EQT116	ASL-2 - Uran Storage Tank No. 1	1.61 million gallons	26.48 MM gallons/yr			8760 hr/yr (All Year)
EQT117	ASL-3 - Uran Storage Tank No. 2	1.61 million gallons	26.48 MM gallons/yr			8760 hr/yr (All Year)
EQT118	ASL-4 - Uran Storage Tank No. 3	1.61 million gallons	26.48 MM gallons/yr			8760 hr/yr (All Year)
EQT119	ASL-5 - Uran Storage Tank No. 4	1 million gallons	16.53 MM gallons/yr			8760 hr/yr (All Year)
EQT120	ASL-6 - Uran Storage Tank No. 5	2 million gallons	32.94 MM gallons/yr			8760 hr/yr (All Year)
EQT121	ASL-7 - Uran Storage Tank No. 6	6.01 million gallons	98.83 MM gallons/yr			8760 hr/yr (All Year)
EQT122	ASL-8 - Uran Storage Tank No. 7	6.01 million gallons	98.83 MM gallons/yr			8760 hr/yr (All Year)
EQT123	ASL-9 - Dock Loading/Unloading			NH3, H2SO4, Poly-N, Molten Sulfur and Phosphate Rock		52 hr/yr (All Year)
EQT124	AU-3 - Urea Storage Tank FB-310	50000 gallons		Urea		120 hr/yr (All Year)

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## INVENTORIES

AI ID: 3732 - PCS Nitrogen Fertilizer LP - Nitrate Group - Geismar Agricultural Nitrogen & Phosphate Plant

Activity Number: PER19960001

Permit Number: 2241-V1

Air - Title V Regular Permit Initial

### Subject Item Inventory:

ID	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
EOT125	AU4 - U-60 Scrubber	300000 tons/yr	1350 tons/day	Urea	8760 hr/yr (All Year)	
EQT126	AU-5 - Oil Separator Tank	7800 gallons	4.09 MM gallons/yr	DTE Oil from V-127 and CO2 Condensate	8760 hr/yr (All Year)	
EOT127	AU-6 - CO2 Knockout Drum			Condensate	8760 hr/yr (All Year)	
EOT128	AU-7 - Urea Hotwell			Condensate	8760 hr/yr (All Year)	
EOT129	AU-8 - MEA Storage Tank V329A	24000 gallons	42992 gallons/yr	MEA	8760 hr/yr (All Year)	
EOT130	AU-9 - MEA Storage Tank V329B	27524 gallons	42992 gallons/yr	MEA	8760 hr/yr (All Year)	
FUG013	AA-3 - Ammonia Plant Fugitives				8760 hr/yr (All Year)	
FUG014	AS-3 - Solutions Area Fugitives				8760 hr/yr (All Year)	
FUG015	ASL-13 - Dock Facilities Fugitives				8760 hr/yr (All Year)	
FUG016	AU-2 - Urea Plant Fugitives				8760 hr/yr (All Year)	
RLP008	AA-2 - Ammonia Plant Carbon Dioxide Vent		602250 tons/yr	1650 tons/day	Ammonia Production	8760 hr/yr (All Year)
RLP009	AU-1 - Urea Plant Desorber Carbon Dioxide Vent		492750 tons/yr	1350 tons/day	Urea Production	8760 hr/yr (All Year)

### Subject Item Groups:

ID	Description	Included Components (from Above)
GRP029	AS-1 - Solutions Water and Wastewater Storage Tanks	EQT103 AS-1a - 230VE001A Water Storage Tank
GRP029	AS-1 - Solutions Water and Wastewater Storage Tanks	EQT104 AS-1b - 230VE001B Water Storage Tank
GRP029	AS-1 - Solutions Water and Wastewater Storage Tanks	EQT105 AS-1c - 230VE001C Water Storage Tank
GRP029	AS-1 - Solutions Water and Wastewater Storage Tanks	EQT106 AS-1d - 117A Solutions Area Wastewater Sump
GRP029	AS-1 - Solutions Water and Wastewater Storage Tanks	EOT107 AS-1e - V-101V Wastewater Storage Tank
GRP029	AS-1 - Solutions Water and Wastewater Storage Tanks	EOT108 AS-1f - V-103A Wastewater Storage Tank
GRP031	Ammonia and Urea Process Area	EQT2 AA-4 Ammonia Plant Process Flare
GRP031	Ammonia and Urea Process Area	EQT93 AA-1 - Ammonia Plant Primary Reformer and Auxiliary Boiler
GRP031	Ammonia and Urea Process Area	EQT94 AA-10 - Degasifier
GRP031	Ammonia and Urea Process Area	EQT95 AA-11 - Sour Oil Degasifier 103 J
GRP031	Ammonia and Urea Process Area	EQT96 AA-12 - Sour Oil Degasifier 105 J
GRP031	Ammonia and Urea Process Area	EQT97 AA-13 - Ammonia Plant Slop Oil Tank
GRP031	Ammonia and Urea Process Area	EQT98 AA-14 - Amine Solutions Tank (114F)
GRP031	Ammonia and Urea Process Area	EQT99 AA-6 - Ammonia Plant Cooling Tower
GRP031	Ammonia and Urea Process Area	EQT100 AA-7 - Ammonia Plant Startup Healer
GRP031	Ammonia and Urea Process Area	EQT101 AA-8 - Sulfuric Acid Storage Tank
GRP031	Ammonia and Urea Process Area	EOT102 AA-9 - Organic Sulfur Removal Regeneration
GRP031	Ammonia and Urea Process Area	EQT103 AS-1a - 230VE001A Water Storage Tank
GRP031	Ammonia and Urea Process Area	EQT104 AS-1b - 230VE001B Water Storage Tank
GRP031	Ammonia and Urea Process Area	EQT105 AS-1c - 230VE001C Water Storage Tank
GRP031	Ammonia and Urea Process Area	EQT106 AS-1d - 117A Solutions Area Wastewater Sump

**AI ID:** 3732 - PCS Nitrogen Fertilizer LP - Nitrate Group - Geismar Agricultural Nitrogen & Phosphate Plant  
**Activity Number:** PER19960001  
**Permit Number:** 2241-V1  
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## INVENTORIES

### Subject Item Groups:

ID	Description	Included Components (from Above)
GRP031	Ammonia and Urea Process Area	EQT107 AS-1e - V-101 Wastewater Storage Tank
GRP031	Ammonia and Urea Process Area	EQT108 AS-1f - V-103A Wastewater Storage Tank
GRP031	Ammonia and Urea Process Area	EQT109 ASL-1 - Ammonia Plant Storage Flare
GRP031	Ammonia and Urea Process Area	EQT110 ASL-10 - Solutions/Ammonia/AN Railcar Loading
GRP031	Ammonia and Urea Process Area	EQT111 ASL-11 - Solutions Truck Loading
GRP031	Ammonia and Urea Process Area	EQT112 ASL-12 - Truck and Rail Loading Wastewater Sumps
GRP031	Ammonia and Urea Process Area	EQT113 ASL-14 - Anhydrous Ammonia Loading/Unloading
GRP031	Ammonia and Urea Process Area	EQT114 ASL-15 - Ammonia Truck Loading/Unloading
GRP031	Ammonia and Urea Process Area	EQT115 ASL-16 - Ammonia Railcar Loading/Unloading
GRP031	Ammonia and Urea Process Area	EQT116 ASL-2 - Uran Storage Tank No. 1
GRP031	Ammonia and Urea Process Area	EQT117 ASL-3 - Uran Storage Tank No. 2
GRP031	Ammonia and Urea Process Area	EQT118 ASL-4 - Uran Storage Tank No. 3
GRP031	Ammonia and Urea Process Area	EQT119 ASL-5 - Uran Storage Tank No. 4
GRP031	Ammonia and Urea Process Area	EQT120 ASL-6 - Uran Storage Tank No. 5
GRP031	Ammonia and Urea Process Area	EQT121 ASL-7 - Uran Storage Tank No. 6
GRP031	Ammonia and Urea Process Area	EQT122 ASL-8 - Uran Storage Tank No. 7
GRP031	Ammonia and Urea Process Area	EQT123 ASL-9 - Dock Loading/Unloading
GRP031	Ammonia and Urea Process Area	EQT124 AU-3 - Urea Storage Tank FB-310
GRP031	Ammonia and Urea Process Area	EQT125 AU-4 - U-60 Scrubber
GRP031	Ammonia and Urea Process Area	EQT126 AU-5 - Oil Separator Tank
GRP031	Ammonia and Urea Process Area	EQT127 AU-6 - CO2 Knockout Drum
GRP031	Ammonia and Urea Process Area	EQT128 AU-7 - Urea Hotwell
GRP031	Ammonia and Urea Process Area	EQT129 AU-8 -MEA Storage Tank V229A
GRP031	Ammonia and Urea Process Area	EQT130 AU-9 -MEA Storage Tank V229B
GRP031	Ammonia and Urea Process Area	FUG13 AA-3 - Ammonia Plant Fugitives
GRP031	Ammonia and Urea Process Area	FUG14 AS-3 - Solutions Area Fugitives
GRP031	Ammonia and Urea Process Area	FUG15 ASL-13 - Dock Facilities Fugitives
GRP031	Ammonia and Urea Process Area	FUG16 AU-2 - Urea Plant Fugitives
GRP031	Ammonia and Urea Process Area	GRP29 AS-1 - Solutions Water and Wastewater Storage Tanks
GRP031	Ammonia and Urea Process Area	RLP8 AA-2 - Ammonia Plant Carbon Dioxide Vent
GRP031	Ammonia and Urea Process Area	RLP9 AU-1 - Urea Plant Desorber Carbon Dioxide Vent
GRP033	Ammonia and Urea Process Area	EQT93 AA-1 - Ammonia Plant Primary Reformer and Auxiliary Boiler

### Relationships:

ID	Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)	Temperature (oF)
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**INVENTORIES**

AI ID: 3732 - PCS Nitrogen Fertilizer LP - Nitrate Group - Geismar Agricultural Nitrogen &amp; Phosphate Plant

Activity Number: PER19960001

Permit Number: 2241-V1

Air - Title V Regular Permit Initial

**Stack Information:**

ID		Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)	Temperature (°F)
EQT002	AA-4 Ammonia Plant Process Flare	34.3	206100	.6	.135		
EQT093	AA-1 Ammonia Plant Primary Reformer and Auxiliary Boiler					105	242
EQT094	AA-10 - Degasser			.5		60	200
EQT095	AA-11 - Sour Oil Degassifier 103 J			.25		10	
EQT096	AA-12 - Sour Oil Degassifier 105 J			.25			
EQT097	AA-13 - Ammonia Plant Slop Oil Tank			.5			
EQT098	AA-14 - Amine Solutions Tank (114F)			.25			6
EQT099	AA-6 - Ammonia Plant Cooling Tower						25
EQT100	AA-7 - Ammonia Plant Startup Heater	23	20000	.43			44
EQT101	AA-8 - Sulfuric Acid Storage Tank			.5		78	1100
EQT102	AA-9 - Organic Sulfur Removal Regeneration			.25			12.5
EQT109	ASL-1 - Ammonia Plant Storage Flare			1		100	300
EQT116	ASL-2 - Uran Storage Tank No. 1			1		80	
EQT117	ASL-3 - Uran Storage Tank No. 2			1		17	
EQT118	ASL-4 - Uran Storage Tank No. 3			1		17	
EQT119	ASL-5 - Uran Storage Tank No. 4			1		18	
EQT120	ASL-6 - Uran Storage Tank No. 5			1		16	
EQT121	ASL-7 - Uran Storage Tank No. 6			1			
EQT122	ASL-8 - Uran Storage Tank No. 7			1			48
EQT124	AU-3 - Urea Storage Tank FB-310						48
EQT125	AU-4 - U-80 Scrubber						60
EQT126	AU-5 - Oil Separator Tank	41.35	1700	.67		38	200
EQT127	AU-6 - CO2 Knockout Drum			.5		17	
EQT128	AU-7 - Urea Hotwell	110	1307	.5		80	220
EQT129	AU-8 - MEA Storage Tank V329A						
EQT130	AU-9 - MEA Storage Tank V329B						
RLP008	AA-2 - Ammonia Plant Carbon Dioxide Vent	348.38	29041	1.33			7.7
RLP009	AU-1 - Urea Plant Desorber Carbon Dioxide Vent	61.5	5067	2			7.5
							90
							140
							125
							212

**Fee Information:**

Sub Item Id	Multiplier	Units Of Measure	Fee Desc
GRP031	492.75	1,000 Ton/Yr	0660 - Urea and Ureafarm (Rated Capacity)
	1650	Ton/Day	0640 - Ammonia Manufacture (Rated Capacity)

## EMISSION RATES FOR CRITERIA POLLUTANTS

AI ID: 3732 - PCS Nitrogen Fertilizer LP - Nitrate Group - Geismar Agricultural Nitrogen & Phosphate Plant  
 Activity Number: PER19960001  
 Permit Number: 2241-V1  
 Air - Title V Regular Permit Initial

### All phases

Subject Item	PM <sub>10</sub>			SO <sub>2</sub>			NOx			CO			VOC		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
EQT 002 AA-4	0.03	0.03	0.11	0.002	0.002	0.009	0.57	0.75	2.52	0.27	0.33	1.20	0.02	0.02	0.08
EQT 093 AA-1	7.11	7.82	31.13	0.56	0.62	2.46	411.35	638.59	1801.71	78.56	86.40	344.09	5.14	5.66	22.53
EQT 094 AA-10										0.27	0.33	1.20	1.81	2.17	7.94
EQT 097 AA-13												<	0.001	<	0.001
EQT 098 AA-14												<	0.001	<	0.001
EQT 099 AA-6	24.70	29.63	108.16												
EQT 100 AA-7	0.29	0.35	0.03	0.02	0.03	< 0.01	3.81	4.57	0.34	3.20	3.84	0.29	0.21	0.25	0.02
EQT 102 AA-9				3.96	5.00	0.04						495.00	594.00	4.95	
EQT 103 AS-1a	<	0.001													
EQT 104 AS-1b	<	0.001													
EQT 105 AS-1c	<	0.001													
EQT 106 AS-1d	<	0.001													
EQT 107 AS-1e	<	0.001													
EQT 108 AS-1f	<	0.001													
EQT 109 ASL-1	0.03	0.03	0.11	0.002	0.002	0.009	47.85	57.42	1.67	0.27	0.33	1.20	0.02	0.02	0.08
EQT 116 ASL-2	< 0.001	< 0.001	0.001												
EQT 117 ASL-3	< 0.001	< 0.001	0.001												
EQT 118 ASL-4	< 0.001	< 0.001	0.001												

## EMISSION RATES FOR CRITERIA POLLUTANTS

AI ID: 3732 - PCS Nitrogen Fertilizer LP - Nitrate Group - Geismar Agricultural Nitrogen & Phosphate Plant  
 Activity Number: PER19960001  
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Air - Title V Regular Permit Initial

### All phases

Subject Item	PM <sub>10</sub>			SO <sub>2</sub>			NOx			CO			VOC		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
EQT 119 ASL-5	< 0.001	< 0.001	0.001												
EQT 120 ASL-6	< 0.001	< 0.001	0.002												
EQT 121 ASL-7	0.001	0.001	0.005												
EQT 122 ASL-8	0.001	0.001	0.005												
EQT 125 AU-4	0.72	0.97	3.13												
EQT 126 AU-5										0.001	0.002	0.005			
EQT 127 AU-6										< 0.001	< 0.001	< 0.01			
EQT 128 AU-7										< 0.001	< 0.001	< 0.01			
EQT 129 AU-8										< 0.001	< 0.001	< 0.01			
EQT 130 AU-9										< 0.001	< 0.001	< 0.01			
GRP 029 AS-1	< 0.001	< 0.01													
<b>GRP 033</b>							<b>2.17</b>		<b>9.50</b>	<b>3.66</b>		<b>16.02</b>			
<b>RLP 008 AA-2</b>								<b>7.29</b>		<b>31.93</b>		<b>11.28</b>		<b>49.39</b>	
<b>RLP 009 AU-1</b>									<b>3.09</b>		<b>13.51</b>		<b>3.55</b>		<b>15.55</b>

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals

#### Permit Phase Totals:

PM10: 142.69 tons/yr  
 SO2: 2.52 tons/yr  
 NOx: 1806.24 tons/yr  
 CO: 393.42 tons/yr

## EMISSION RATES FOR CRITERIA POLLUTANTS

AI ID: 3732 - PCS Nitrogen Fertilizer LP - Nitrate Group - Geismar Agricultural Nitrogen & Phosphate Plant

Activity Number: PER19960001

Permit Number: 2241-V1

Air - Title V Regular Permit Initial

### All phases

VOC: 100.55 tons/yr

#### Emission rates Notes:

EQT 093	NOx	Max lb/hr	(PSD-LA-617) Which Months: All Year
EQT 093	NOx	Tons/Year	(PSD-LA-617) Which Months: All Year
EQT 109	NOx	Avg lb/hr	This emission rate includes a once per twelve month ammonia release event from tank over pressuring. The release is permitted at a maximum of 9,500 lbs/hr of ammonia routed to the flare for a total of ten hours. Which Months: All Year
EQT 109	NOx	Max lb/hr	This emission rate includes a once per twelve month ammonia release event from tank over pressuring. The release is permitted at a maximum of 9,500 lbs/hr of ammonia routed to the flare for a total of ten hours. Which Months: All Year
GRP 033	CO	Avg lb/hr	This emission rate is based upon 47.96 % of the stack stream being vented to the atmosphere. The maximum operating scenario emission rates under RLP 08 represents zero percent of the stack stream being routed to the Urea production area, which represents 100% release to the atmosphere. Actual operation can vary between these values. Which Months: All Year
GRP 033	CO	Tons/Year	This emission rate is based upon 47.96 % of the stack stream being vented to the atmosphere. The maximum operating scenario emission rates under RLP 08 represents zero percent of the stack stream being routed to the Urea production area, which represents 100% release to the atmosphere. Actual operation can vary between these values. Which Months: All Year
GRP 033	VOC	Avg lb/hr	This emission rate is based upon 47.96 % of the stack stream being vented to the atmosphere. The maximum operating scenario emission rates under RLP 08 represents zero percent of the stack stream being routed to the Urea production area, which represents 100% release to the atmosphere. Actual operation can vary between these values. Which Months: All Year
GRP 033	VOC	Tons/Year	This emission rate is based upon 47.96 % of the stack stream being vented to the atmosphere. The maximum operating scenario emission rates under RLP 08 represents zero percent of the stack stream being routed to the Urea production area, which represents 100% release to the atmosphere. Actual operation can vary between these values. Which Months: All Year
RLP 008	CO	Avg lb/hr	This emission rate is based upon 100 % of the stack stream being vented to the atmosphere. The alternate operating scenario emission rates under GRP 33 represents the maximum percent of the stack stream being routed to the Urea production area, which represents 47.96% release to the atmosphere. Actual operation can vary between these values. Which Months: All Year
RLP 008	CO	Max lb/hr	This emission rate is based upon 100 % of the stack stream being vented to the atmosphere. The alternate operating scenario emission rates under GRP 33 represents the maximum percent of the stack stream being routed to the atmosphere. The alternate operating scenario emission rates under GRP 33 operation can vary between these values. Which Months: All Year
RLP 008	CO	Tons/Year	This emission rate is based upon 100 % of the stack stream being vented to the atmosphere. The alternate operating scenario emission rates under GRP 33 represents the maximum percent of the stack stream being routed to the atmosphere. The alternate operating scenario emission rates under GRP 33 operation can vary between these values. Which Months: All Year
RLP 008	VOC	Avg lb/hr	This emission rate is based upon 100 % of the stack stream being vented to the atmosphere. The alternate operating scenario emission rates under GRP 33 represents the maximum percent of the stack stream being routed to the atmosphere. The alternate operating scenario emission rates under GRP 33 operation can vary between these values. Which Months: All Year
RLP 008	VOC	Max lb/hr	This emission rate is based upon 100 % of the stack stream being vented to the atmosphere. The alternate operating scenario emission rates under GRP 33 represents the maximum percent of the stack stream being routed to the Urea production area, which represents 47.96% release to the atmosphere. Actual operation can vary between these values. Which Months: All Year
RLP 008	VOC	Tons/Year	This emission rate is based upon 100 % of the stack stream being vented to the atmosphere. The alternate operating scenario emission rates under GRP 33 represents the maximum percent of the stack stream being routed to the Urea production area, which represents 47.96% release to the atmosphere. Actual operation can vary between these values. Which Months: All Year